SERVICE MANUAL

SUPER INTEGRATED AMPLIFIER

SANSUI AU-X1

Sansui

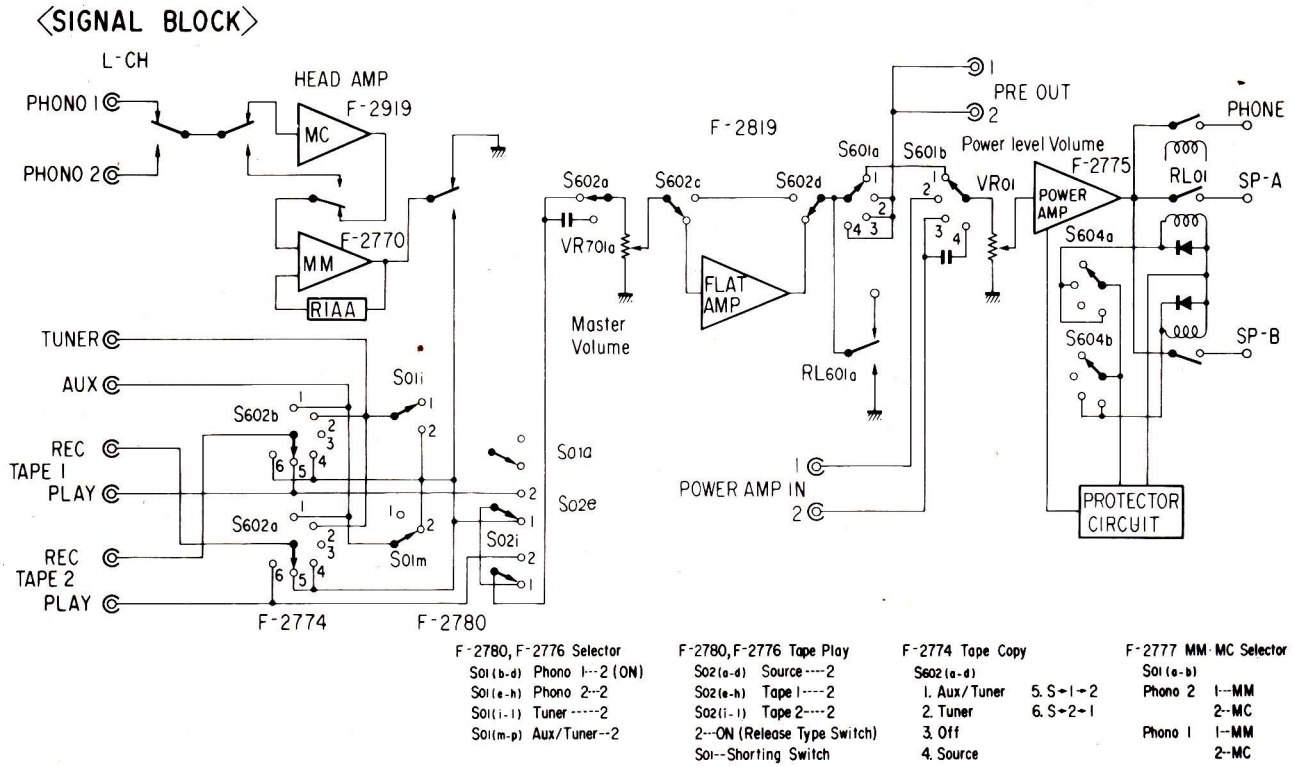
SANSUI ELECTRIC CO., LTD.

SPECIFICATIONS

Power output
Min. RMS, both channels driven, from 5 to 20,000 Hz, with no more than 0.007 % total harmonic distortion
160 watts per channel into 8 ohms
Load impedance . . . . 8 ohms
Total harmonic distortion (POWER AMP IN)
. . . . . less than 0.007 % at or below rated min. RMS power output
Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method) (POWER AMP IN)
. . . . . less than 0.007 % at or below rated min. RMS power output
Rise time . . . . . 0.5 μsec
Slew rate . . . . . ±260 V/μsec
Frequency response (at 1 watt) (POWER AMP IN)
. . . . . DC to 500,000 Hz +0 dB −3 dB
Damping factor (1 kHz, both channels driven)
. . . . . 100 into 8 ohms
RIAA curve deviation (PHONO, 20 Hz to 20 kHz)
. . . . . +0.2 dB, −0.2 dB
Input sensitivity and impedance (1 kHz, for rated power output)
PHONO (MC) . . . . 0.1 mV/200 ohms
(Max. input capability; 40 mV at 1 kHz, less than 0.01 % total harmonic distortion)
PHONO (MM) . . . 2.5 mV/47 kilohms
(Max. input capability; 330 mV at 1 kHz, less than 0.01 % total harmonic distortion)
AUX/TUNER, TUNER, TAPE PLAY
. . . . . 200 mV/47 kilohms
POWER AMP IN . . 1 V/47 kilohms
Output level and impedance (1,000 Hz)
TAPE REC . . . . . 200 mV into 47 kilohms/600 ohms
PREAMP OUT . . . 1 V into 47 kilohms/600 ohms
Channel separation (1 kHz, at rated power output)
PHONO (MC) . . . . 70 dB
PHONO (MM) . . . 75 dB
AUX/TUNER, TUNER, TAPE PLAY
. . . . . 80 dB
Hum and noise (short-circuit, A-network)
PHONO (MC) . . . . 76 dB
PHONO (MM) . . . 91 dB
AUX/TUNER, TUNER, TAPE PLAY
. . . . . 100 dB
Controls
SUBSONIC . . . . . −3 dB (16 Hz), 6 dB/oct
JUMP . . . . . −14 dB
Power requirements
Power voltage . . . . 100, 120, 220, 240 V (50/60 Hz)
Power consumption
Rated consumption
. . . . . 500 watts
Dimensions . . . . . 480 mm (18-15/16") W
197 mm (7-13/16") H
450 mm (17-3/4") D
Weight . . . . . 27.7 kg (61.1 lbs) net
30.4 kg (67.0 lbs) packed

* Design and specifications subject to changes without notice for improvements.

1. BLOCK DIAGRAM



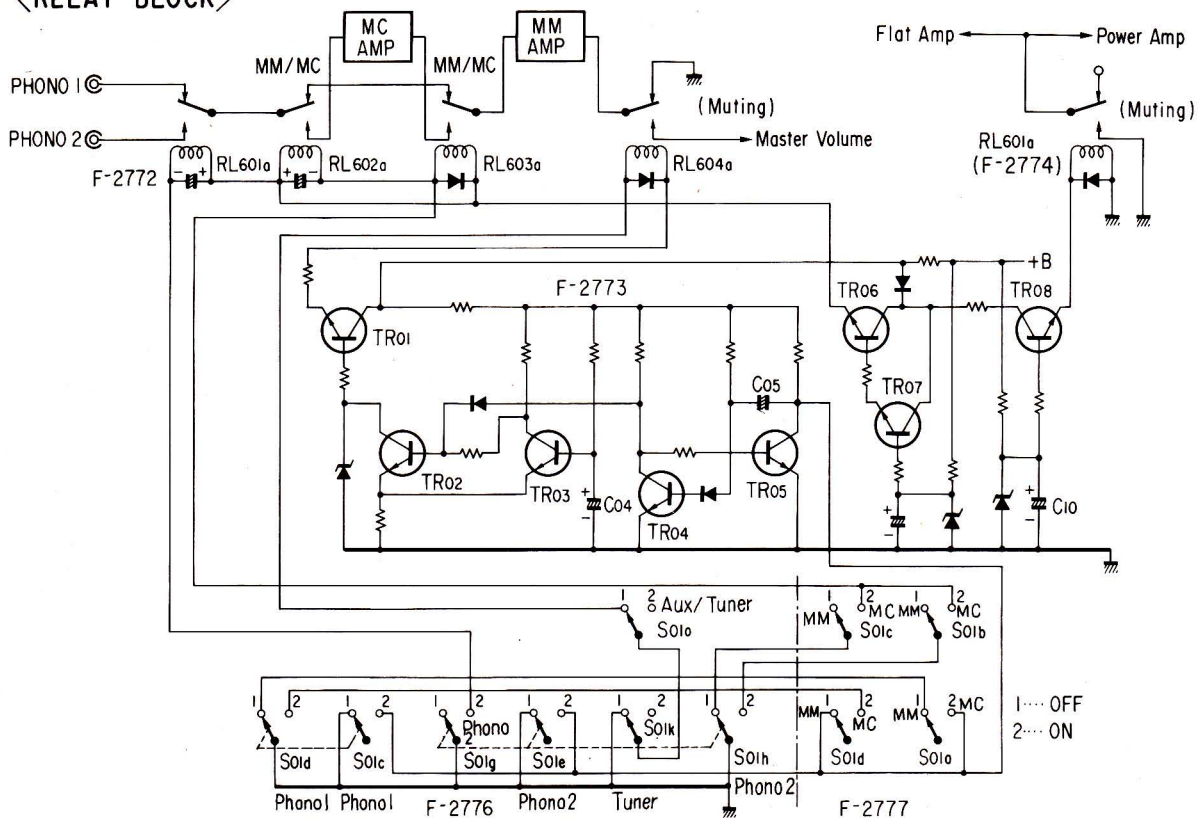
F-2780, F-2776 Selector
S01(b-d) Phono 1---2 (ON)
S01(e-h) Phono 2---2
S01(i-l) Tuner-----2
S01(m-p) Aux/Tuner--2

F-2780, F-2776 Tape Play
S02(a-d) Source----2
S02(e-h) Tape 1----2
S02(i-l) Tape 2----2
2---ON (Release Type Switch)
S01--Shorting Switch

F-2774 Tape Copy
S602(a-d)
1. Aux/Tuner 5. S→1→2
2. Tuner 6. S→2→1
3. Off
4. Source

F-2777 MM-MC Selector
S01(a-b)
Phono 2 1---MM
2---MC
Phono 1 1---MM
2---MC

〈RELAY BLOCK〉



* The switch S01 is shorting type and generates pulse to function the relay circuit at switching.
* The S01 on F-2776, F-2777 is interlocking switch and only a contact or contacts joined by dotted line can be ON state (2 side) and others are released (1 side).

2. THE OPERATION & CHARACTERISTIC OF HIGH SPEED POWER TRANSISTOR

In order to up-grade the sound quality, AU-X1 employs the circuitry of the push-pull drive DC comfiguration from MC head amp to power amp stage, which provide superior dynamic and open-loop characteristics.
The improvement was made for parts such as volumes, wires, relays, electrolytic capacitors and semi-conductors. In particular, newly developed linear high speed device, LAPT (Linear Amplifier Power Transistor) is adapted in power stage, and the combination use of this high speed power transistor and diamond differential circuit allows slew rate of 260 V/μs and wide range low distortion amplification.

2-1. High Speed Power Transistor

The requirements for power trnasistor in order to elevate sound quality are;

* to have high cut-off frequency, f_T (high speed device).
* to make voltage dependance of DC forward-current transfer ratio, h_{FE} be little and have excellent linearlity.
* to have a large A.S.O. (Area of Safe Operation) and strong endurance against break-down.

The use of high speed power transistor with requirements above together with circuit improvement is effective for achievement of wide range and low distortion amplification. Transistors to meet with these requirements are both bi-polar and field effect transistor (FET).

Note: Cut-off frequency, f_T shows the frequency at which the small signal current gain will be 1 (0 dB) in common emitter circuit.

Comparison between bi-polar and field effect type as power transistor.

Table 1; Comparison of bi-polar and field effect type as a power device.

Characteristics	Bi-polar type	Field effect device junction type FET SIT	MOS FET
Input impedance	low	high	high
Thermal coefficient of operating current	positive	negative	negative
Stored carrier effect (Carrier strage effect)	exist	none	none
Transfer characteristic	exponential	square	square
Idring current as a output device	little	large	large
Output characteristic	pentode	triode	pentode
State at no input bias	off	on	on
Current path (Channel)	vertical	vertical	vertical & horizontal
Threshold voltage	low	inter-mediate	high
Cost	low	high	high

The advantages of FET are high input impedance and no thermal run-away because of negative thermal coefficient of operating current, however, there still remains price problem on FET, in addition, bi-polar type high speed power transistor are variously developed and becoming common so that AU-X1 employs bi-polar type power trnasistor (LAPT).

2-2. The Configuration of High Speed Transistor

In order to increase the cut-off frequency, f_T, it is necessary to make transistor base as thin as possible, but it oppose to A.S.O. (Area of Safe Operation) to enlarge. When making the transistor base thin, the injected current density is increased so that junction is destroied by second-breakdown. To solve above problem, the construction of power transistor (LAPT) is parallel connection of devided 35 of small signal transistors, in addition, the defusion resistor is made at each emitter of devided transistor to equalize the flowing current.

Fig. 1 Illustration of emitter ballast resistor made by defusion.

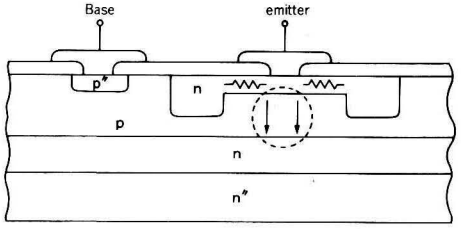


Fig. 2 Equivalent circuit of ballast resistor defused to emitter of transistor.

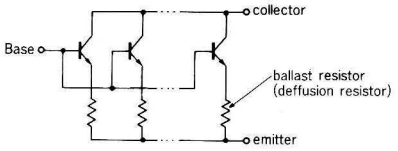
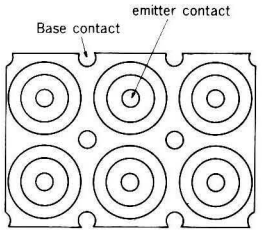


Fig. 3 Surface of LAPT before evaporation.



By connecting many small signal transistors with high f_T in parallel, power transistor with high f_T and large A.S.O. can be obtained.
If there is current-concentration to one of small signal transistors, the voltage between emitter and base is decreased by the ballast resistor (deffusion resistor) at emitter, which causes internal negative feedback and relieves the current-concentration.

2-3. The Characteristic and Merit of use of High Speed Power Transistor

- The relation between switching time, f_T, and h_{FE} of power transistor.

Fig. 4 Switching time

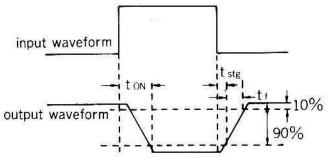
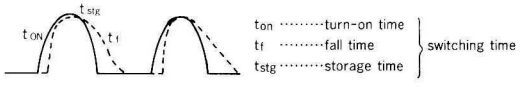


Fig. 5 Influence of switching time against sine-wave (of half cycle)



The more the switching time is shortened (high speed) the more the frequency range characteristic of power transistor is improved; this relation is indicated in Fig. 4), 5). Fig. 6), 7), 8) show the more the f_T is raised the more the switching speed is quickened.

- **The relation between switching time, f_T and h_{FE}.**
  (x, △, ○, ● showing the quantity of transistor & distribution)

Fig. 6

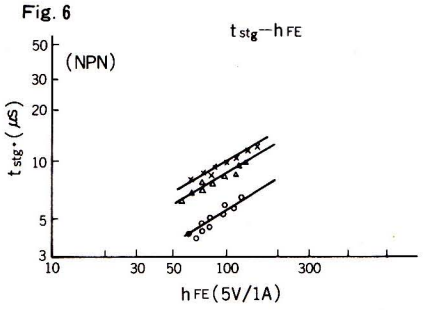


Fig. 7

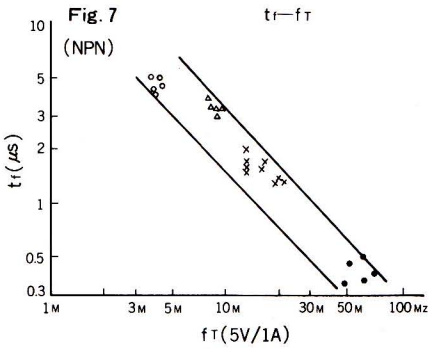
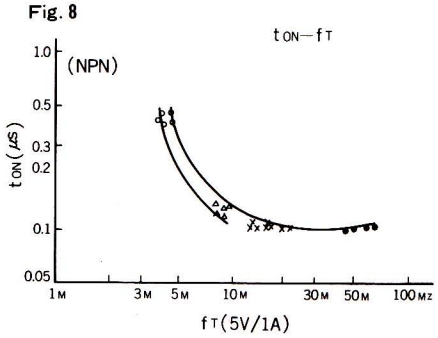


Fig. 8



Next, the following Figs show that the relation between high f_T of power transistor and short periode of t_{stg} influences the improvement of distortion (THD) effectively in audio amplifier.
Fig. 9), 10) show the THD becomes better when t_{stg} is faster.
Fig. 11), 12) illustrate the relation between output current wave-form of emitter and distortion wave-form. From these Figs, it is obvious when the f_T of power transistor is low the output current wave-form becomes dull, and the switching function at B class push-pull operation is not performed precisely.
These above phenomenon causes the increase of operating current and deterioration of distortion.

- **Output wave-form & distortion wave-form near at clipping point.**

Fig. 9

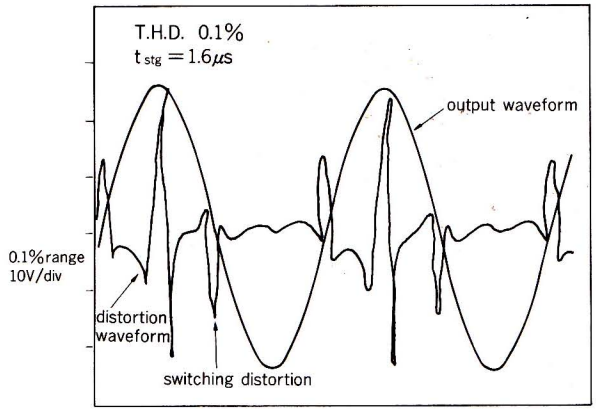
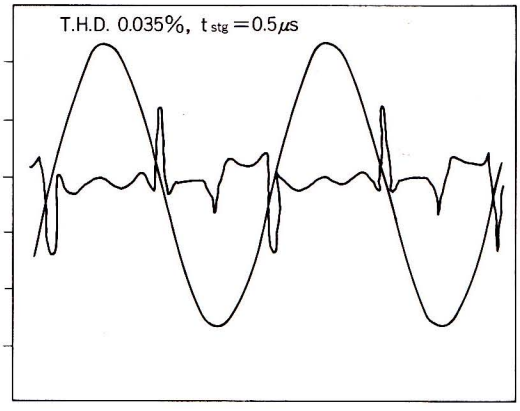


Fig. 10



- **Wave-forms of emitter current and distortion**

Fig. 11

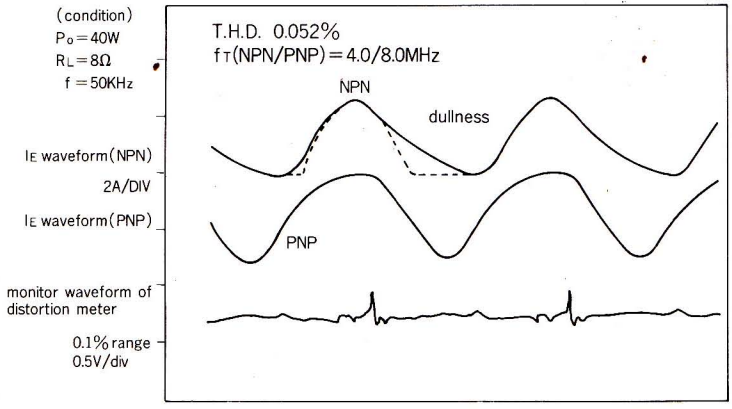
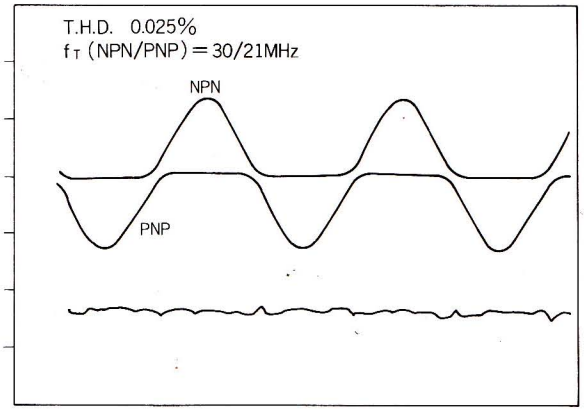


Fig. 12



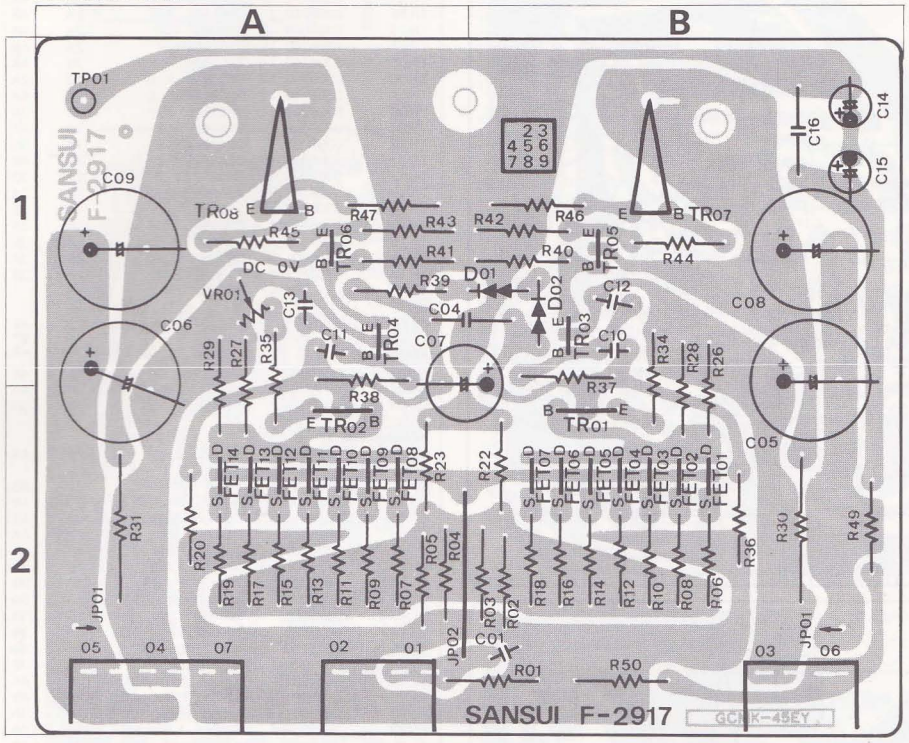
3. PARTS LOCATION & PARTS LIST

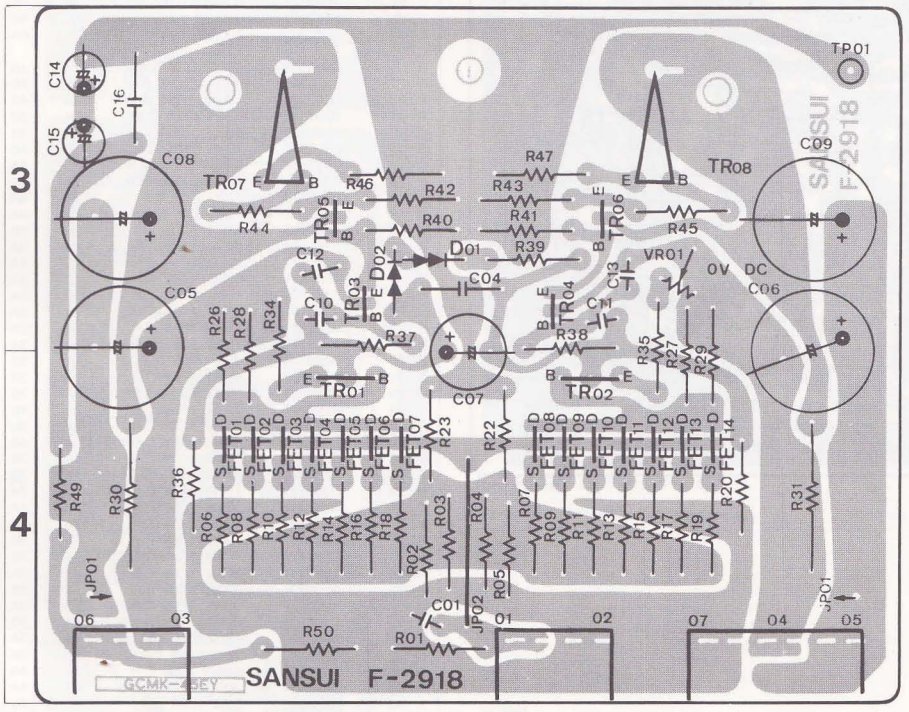
3-1. F-2917 MC Head Amp L-CH Circuit Board (Stock No. 7551421)

3-2. F-2918 MC Head Amp R-CH Circuit Board (Stock No. 7551431)

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

Conductor Side





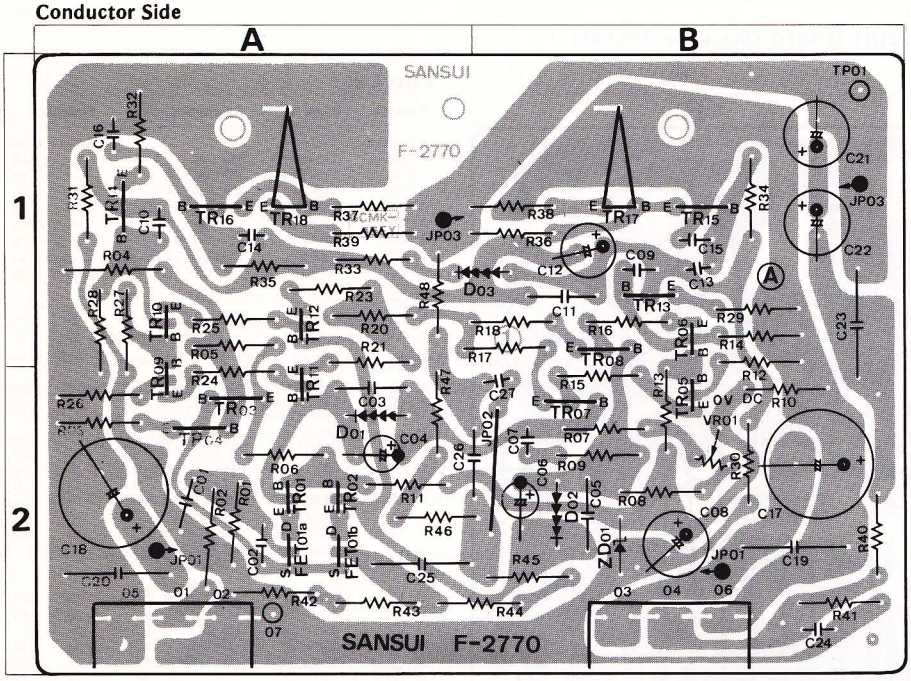
Parts List

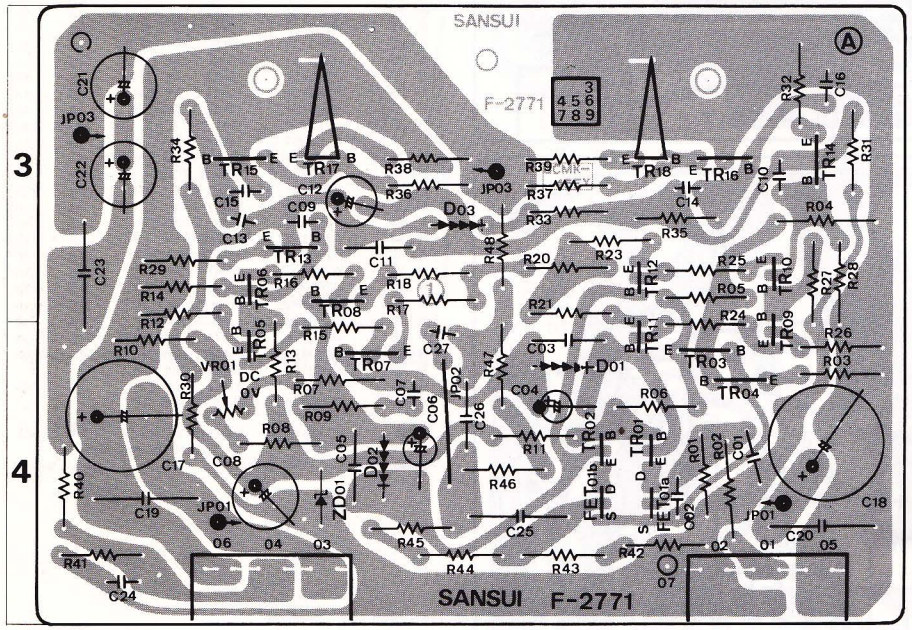
Parts No.	Stock No.	Description	Position	
•Transistor			F-2917	F-2918
TR01	0301090, 1	2SA992 F, E	2B	4A
TR02	0306740, 1	2SC1845 F, E	2A	4B
TR03	0306740, 1	2SC1845 F, E	1B	3A
TR04	0301090, 1	2SA992 F, E	1A	3B
TR05	0306740, 1	2SC1845 F, E	1B	3A
TR06	0301090, 1	2SA992 F, E	1A	3B
TR07	0308501, 2	2SD357 D, E	1B	3A
TR08	0303331, 2	2SB527 D, E	1A	3B
•FET				
FET01 ~ 02	0370344 ~ 7	2SK163M1, M2, N1, N2	2B	4A
FET08 ~ 14	0370334 ~ 7	2SJ44M1, M2, N1, N2	2A	4B
•Varistor				
D 01	0340170	MV103	1B	3A
D 02	0340170	MV103	1B	3A
C 01	0622102	1000pF 125V P.C.	2B	4A
C 04	0681014	0.047μF 400V P.C.	1A	3A
C 10	0622102	1000pF 125V P.C.	1B	3A
C 11	0622102	1000pF 125V P.C.	1A	3B
C 12	0623300	30pF 125V P.C.	1B	3A
C 13	0623300	30pF 125V P.C.	1A	3B
C 14,16	0602109	1μF 100V M.C.	1B	3A
C 17	0622102	1000pF 125V P.C.		
C 25 ~ 29	0681018	0.22μF M.C.		
R 01	0280221	220Ω 1/3W C.R.	2B	4A
R 02	0280109	1Ω 1/3W C.R.	2B	4A
R 03	0280109	1Ω 1/3W C.R.	2B	4A
R 04	0280109	1Ω 1/3W C.R.	2A	4B
R 05	0280109	1Ω 1/3W C.R.	2A	4B
R 06 ~ 19	0280569	5.6Ω 1/3W C.R.	2A, B	4A, B
R 20	0280224	220kΩ 1/3W C.R.	2A	4B
R 22	0280120	12Ω 1/3W C.R.	2B	4B
R 23	0280120	12Ω 1/3W C.R.	2A	4A
R 26	0280151	150Ω 1/3W C.R.	2B	4A
R 27	0280151	150Ω 1/3W C.R.	2A	4B
R 28	0280101	100Ω 1/3W C.R.	2B	4A
R 29	0280101	100Ω 1/3W C.R.	2A	4B
R 30, 31	0212150	15Ω 2W N.I.R.	2B,2A	4A,4B
R 34	0280561	560Ω 1/3W C.R.	1B	3A
R 35	0280511	510Ω 1/3W C.R.	1A	3B
R 36	0280224	220kΩ 1/3W C.R.	2B	4A
R 37	0280221	220Ω 1/3W C.R.	1B	3A
R 38	0280221	220Ω 1/3W C.R.	1A	3B
R 39	0280479	4.7Ω 1/3W C.R.	1A	3B
R 40	0280152	1.5kΩ 1/3W C.R.	1B	3A
R 41	0280152	1.5kΩ 1/3W C.R.	1A	3B
R 42	0280391	390Ω 1/3W C.R.	1B	3A
R 43	0280391	390Ω 1/3W C.R.	1A	3B
R 44	0280479	4.7Ω 1/3W C.R.	1B	3A
R 45	0280479	4.7Ω 1/3W C.R.	1A	3B
R 46	0210478	0.47Ω 1/2W N.I.R.	1B	3A
R 47	0210478	0.47Ω 1/2W N.I.R.	1A	3B
R 48	0280101	100Ω 1/3W C.R.		
R 49	0280221	220Ω 1/3W C.R.	2B	4A
R 50	0280824	820kΩ 1/3W C.R.		
VR01	1033570	100Ω B Center DC 0V Adj.	1A	3B

3-3. F-2770 Equalizer Amp L-CH Circuit Board (Stock No. 7551441)

3-4. F-2771 Equalizer Amp R-CH Circuit Board (Stock No. 7551451)

Conductor Side



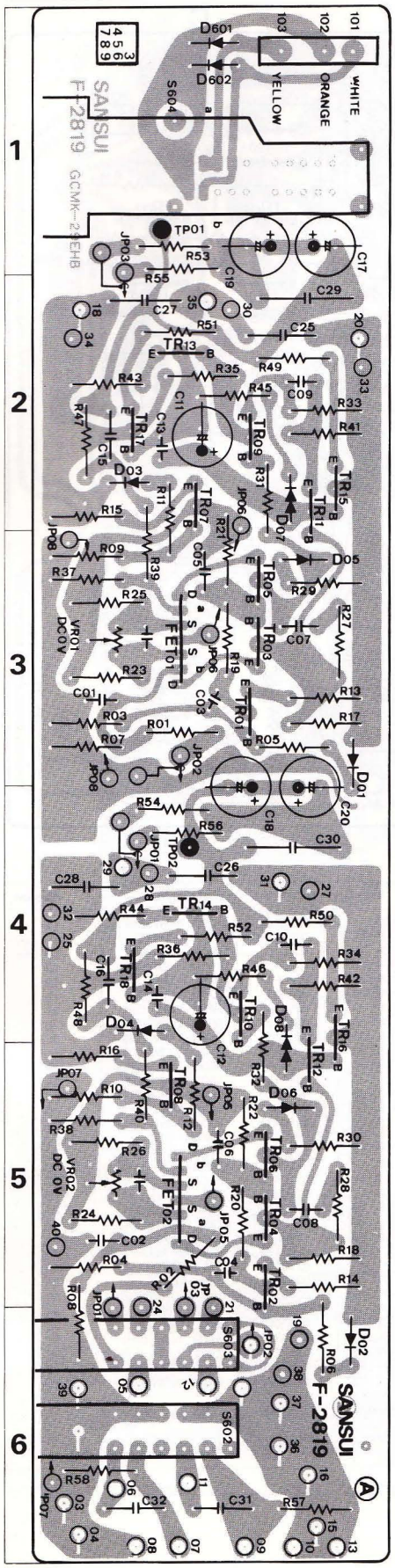


Parts List

Parts No.	Stock No.	Description	Position F-2770	Position F-2771
•Transistor				
TR01	0306740, 1	2SC1845 F, E	2A	4B
TR02	0306740, 1	2SC1845 F, E	2A	4B
TR03	0301090, 1	2SA992 F, E	2A	4B
TR04	0306360, 1	2SC1951-1, 2	2A	4B
TR05	0306740, 1	2SC1845 F, E	2B	4A
TR06	0306740, 1	2SC1845 F, E	1B	2A
TR07	0306740, 1	2SC1845 F, E	2B	4A
TR08	0306740, 1	2SC1845 F, E	1B	3A
TR09	0301090, 1	2SA992 F, E	2A	4B
TR10	0301090, 1	2SA992 F, E	1A	3B
TR11	0301090, 1	2SA992 F, E	2A	4B
TR12	0301090, 1	2SA992 F, E	1A	3B
TR13	0300760, 2	2SA917-1, 2	1B	3A
TR14	0306360, 1	2SC1951-1, 2	1A	3B
TR15	0306740, 1	2SC1845 F, E	1B	3A
TR16	0301090, 1	2SA992 F, E	1A	3B
TR17	0308501, 2	2SD357 D, E	1B	3A
TR18	0303331, 2	2SB527 D, E	1A	3B
•FET				
FET01	0370321	2SK131 L, M	2A	4B
•Diode				
D 01	0310480	SV03	2A	4B
D 02	0310480	SV03	2B	4A
D 03	0310480	SV03	1B	3A
•Zener Diode				
ZD01	0316570	RD33E B	2B	4A
C 01	0622151	150pF 125V P.C.	2A	4B
C 02	0623200	20pF 125V P.C.	2A	4B
C 03	0681014	0.047μF 400V M.C.	2A	4B
C 05	0681014	0.047μF 400V M.C.	2B	4A
C 07	0622362	3600pF 125V P.C.	2B	4A
C 09	0623300	30pF 125V P.C.	1B	3A
C 10	0623300	30pF 125V P.C.	1A	3B
C 11	0681014	0.047μF 400V M.C.	1B	3A
C 13	0622102	1000pF 125V P.C.	1B	3A
C 14	0622102	1000pF 125V P.C.	1A	3B
C 15	0623200	20pF 125V P.C.	1B	3A
C 16	0623200	20pF 125V P.C.	1A	3B
C 19	0681001	0.47μF 250V M.C.	2B	4A
C 20	0681001	0.47μF 250V M.C.	2A	4B
C 23	0681001	0.47μF 250V M.C.	1B	3A
C 24	0622332	3300pF 125V P.C.	2B	4A
C 25	0682037	0.12μF 100V M.C.	2A	4B
C 26	0682023	0.033μF 100V M.C.	2A, B	4B
C 27	0622202	2000pF 125V P.C.	2B	4A
R 01	0280563	56kΩ 1/3W C.R.	2A	4B
R 02	0280330	33Ω 1/3W C.R.	2A	4B
R 03	0210182	1.8kΩ 1/2W N.I.R.	2A	4B
R 04	0280333	33kΩ 1/3W C.R.	1A	3B
R 05	0280564	560kΩ 1/3W C.R.	1A	3B
R 06	0280103	10kΩ 1/3W C.R.	2A	4B
R 07	0231182	1.8kΩ 1/2W M.R.	2B	4A
R 08	0231182	1.8kΩ 1/2W M.R.	2B	4A
R 09	0280470	47Ω 1/3W C.R.	2B	4A
R 10	0210102	1kΩ 1/2W N.I.R.	2B	4A
R 11	0280393	39kΩ 1/3W C.R.	2A	4B
R 12	0280821	820Ω 1/3W C.R.	1B	3A
R 13	0280101	100Ω 1/3W C.R.	2B	4A
R 14	0280821	820Ω 1/3W C.R.	1B	3A
R 15	0280101	100Ω 1/3W C.R.	2B	4A
R 16	0280101	100Ω 1/3W C.R.	1B	3A
R 17	0280151	150Ω 1/3W C.R.	1B	3A
R 18	0280151	150Ω 1/3W C.R.	1B	3A
R 20	0280330	33Ω 1/3W C.R.	1A	3B
R 21	0280151	150Ω 1/3W C.R.	1A	3B
R 23	0280151	150Ω 1/3W C.R.	1A	3B
R 24	0280101	100Ω 1/3W C.R.	2A	4B
R 25	0280101	100Ω 1/3W C.R.	1A	3B
R 26	0280821	820Ω 1/3W C.R.	2A	4B
R 27	0280101	100Ω 1/3W C.R.	1A	3B
R 28	0280821	820Ω 1/3W C.R.	1A	3B
R 29	0280121	120Ω 1/3W C.R.	1B	3A
R 30	0280393	39kΩ 1/3W C.R.	2B	4A
R 31	0280393	39kΩ 1/3W C.R.	1A	3B
R 32	0280121	120Ω 1/3W C.R.	1A	3B
R 33	0280121	120Ω 1/3W C.R.	1A	3B
R 34	0280391	390Ω 1/3W C.R.	1B	3A
R 35	0280391	390Ω 1/3W C.R.	1A	3B
R 36	0280331	330Ω 1/3W C.R.	1B	3A
R 37	0280331	330Ω 1/3W C.R.	1A	3B
R 38	0280180	18Ω 1/3W C.R.	1B	3A
R 39	0280180	18Ω 1/3W C.R.	1A	3B
R 40	0280561	560Ω 1/3W C.R.	2B	4A
R 41	0280104	100kΩ 1/3W C.R.	2B	4A
R 42	0280330	33Ω 1/3W C.R.	2A	4B
R 43	0280229	2.2Ω 1/3W C.R.	2A	4B
R 44	0231203	20kΩ 1/2W M.R.	2B	4A
R 45	0231682	6.8kΩ 1/2W M.R.	2B	4A
R 46	0231182	1.8kΩ 1/2W M.R.	2A	4B
R 47	0231391	390Ω 1/2W M.R.	2A	4B
R 48	0280330	33Ω 1/3W C.R.	1A	3B
VR01	1033890	470Ω B Center DC 0V Adj.	2B	4A

3-5. F-2819 Flat Amp Circuit Board (Stock No. 7562781)

Conductor Side



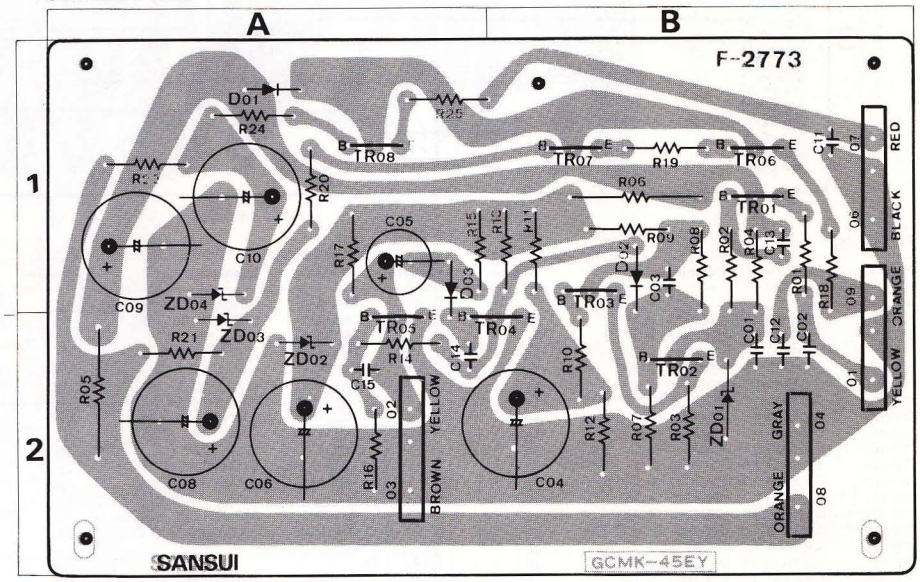
Parts List

Parts No.	Stock No.	Description	Position
•Transistor			
TR01, 02	0301090	2SA892 F, E	3,5
TR03, 04	0306740, 1	2SC1845 F, E	3,5
TR05, 06	0306740, 1	2SC1845 F, E	3,5
TR07, 08	0306740	2SC1845 F, E	2,5
TR09, 10	0301090, 1	2SA992 F, E	2,4
TR11, 12	0300760, 1	2SA917-1, 2	2,5
TR13, 14	0306360, 1	2SC1951-1	2,4
TR15, 16	0306360, 1	2SC1951-1, 2	2,4
TR17, 18	0300760, 1	2SA917-1, 2	2,4
•FET			
FET01, 02	0370361, 2	UPA68H L1, L2	3,5
•Diode			
D 01, 02	0316390	RD6.2E B	3,6
D 03, 04	0316390	RD6.2E B	2,4
D 05, 06	0311160	1S2473D	3,5
D 07, 08	0340150	MV-12	2,5
D 601, 602	0310340	10D1	1
C 01, 02	0623300	30pF 125V P.C.	3,5
C 07, 08	0622152	1500pF 125V P.C.	3,5
C 09, 10	0623100	10pF 125V P.C.	2,4
C 13, 14	0681014	0.047μF 400V M.C.	2,4
C 15, 16	0623309	3pF 125V P.C.	2,4
C 25, 26	0681018	0.22μF 400V M.C.	2,4
C 27, 28	0681018	0.22μF 400V M.C.	2,4
C 29, 30	0681001	0.47μF 250V M.C.	2,4
C 31, 32	0681018	0.22μF 400V M.C.	6
R 01, 02	0280101	100Ω 1/3W C.R.	3,5
R 03, 04	0280823	82kΩ 1/3W C.R.	3,5

Parts No.	Stock No.	Description	Position
R 07, 08	0280104	100kΩ 1/3W C.R.	3,6
R 09, 10	0280823	82kΩ 1/3W C.R.	3,5
R 13, 14	0280562	5.6kΩ 1/3W C.R.	3,5
R 15, 16	0280821	820Ω 1/3W C.R.	2,5
R 17, 18	0280222	2.2kΩ 1/3W C.R.	3,5
R 19, 20	0280102	1kΩ 1/3W C.R.	3,5
R 21, 22	0280103	10kΩ 1/3W C.R.	3,5
R 23, 24	0280470	47Ω 1/3W C.R.	3,5
R 25, 26	0280470	47Ω 1/3W C.R.	3,5
R 27, 28	0280152	1.5kΩ 1/3W C.R.	3,5
R 29, 30	0280222	2.2kΩ 1/3W C.R.	3,5
R 31, 32	0280331	330Ω 1/3W C.R.	2,5
R 33, 34	0280222	2.2kΩ 1/3W C.R.	2,4
R 35, 36	0280222	2.2kΩ 1/3W C.R.	2,4
R 37, 38	0280272	2.7kΩ 1/3W C.R.	3,5
R 39, 40	0280272	2.7kΩ 1/3W C.R.	3,5
R 41, 42	0280681	680Ω 1/3W C.R.	2,4
R 43, 44	0280681	680Ω 1/3W C.R.	2,4
R 45, 46	0280151	150Ω 1/3W C.R.	2,4
R 47, 48	0280822	8.2kΩ 1/3W C.R.	2,4
R 49, 50	0280820	82Ω 1/3W C.R.	2,4
R 51, 52	0280820	82Ω 1/3W C.R.	2,4
R 53, 54	0280154	150kΩ 1/3W C.R.	1,4
R 55, 56	0280221	220Ω 1/3W C.R.	1,4
R 57, 58	0280824	820kΩ 1/3W C.R.	6
R 59 ~ 62	0280224	220kΩ 1/3W C.R.	
VR01, 02	1034150	100Ω B Center DC 0V Adj.	3,5
S 602	1131810	Jump & Subsonic Filter Switch	6
S 604	1190640	Speakers Switch	1

3-6. F-2773 Muting Circuit Board (Stock No. 7597401)

Conductor Side



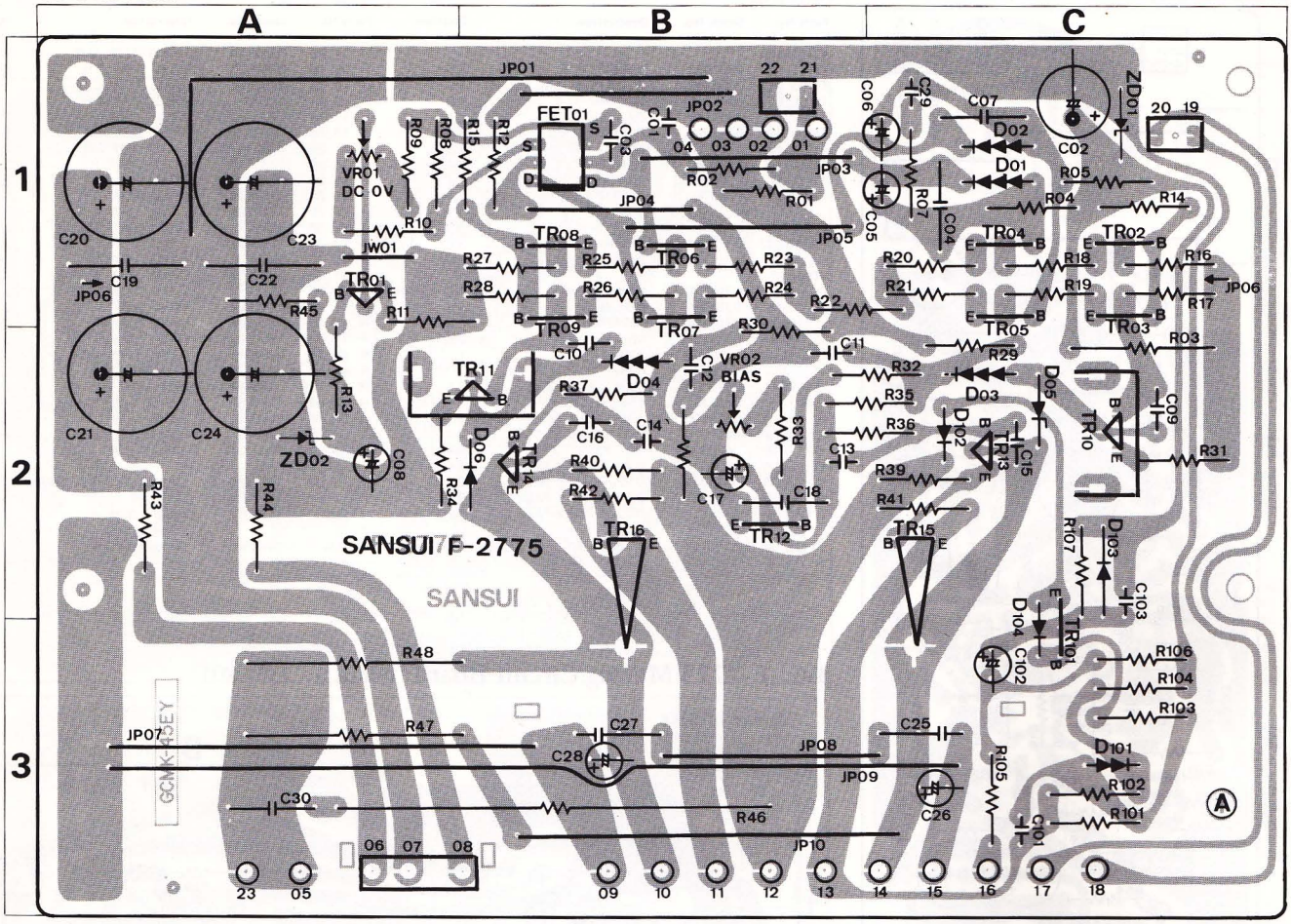
Parts List

Parts No.	Stock No.	Description	Position
•Transistor			
TR01	0305951, 2	2SC945 Q, P	1B
TR02	0305951, 2	2SC945 Q, P	2B
TR03	0305951, 2	2SC945 Q, P	1B
TR04	0305951, 2	2SC945 Q, P	2B
TR05	0305951, 2	2SC945 Q, P	2A
TR06	0305951, 2	2SC945 Q, P	1B
TR07	0305951, 2	2SC945 Q, P	1B
TR08	0305951, 2	2SC945 Q, P	1A
•Diode			
D 01	0310340	10D1	1A
D 02	0311160	1S2473D	1B
D 03	0311160	1S2473D	1A
•Zener Diode			
ZD01	0316520	RD24E C	2B
ZD02	0316290	RD12E B	2A
ZD03	0316520	RD24E C	2A
ZD04	0316520	RD24E C	1A
R 01	0280101	100Ω 1/3W C.R.	1B
R 02	0280471	470Ω 1/3W C.R.	1B

Parts No.	Stock No.	Description	Position
R 03	0280101	100Ω 1/3W C.R.	2B
R 04	0280472	4.7kΩ 1/3W C.R.	1B
R 05	0212220	22Ω 2W N.I.R.	2A
R 06	0212152	1.5kΩ 2W N.I.R.	1B
R 07	0280333	33kΩ 1/3W C.R.	2B
R 08	0280473	47kΩ 1/3W C.R.	1B
R 09	0280472	4.7kΩ 1/3W C.R.	1B
R 10	0280561	560Ω 1/3W C.R.	2B
R 11	0280183	18kΩ 1/3W C.R.	1B
R 12	0280223	22kΩ 1/3W C.R.	2B
R 13	0280222	2.2kΩ 1/3W C.R.	1B
R 14	0280682	6.8kΩ 1/3W C.R.	2A
R 15	0280223	22kΩ 1/3W C.R.	1A
R 16	0280273	27kΩ 1/3W C.R.	2A
R 17	0280222	2.2kΩ 1/3W C.R.	1A
R 18	0280101	100Ω 1/3W C.R.	1B
R 19	0280221	220Ω 1/3W C.R.	1B
R 20	0280471	470Ω 1/3W C.R.	1A
R 21	0280123	12kΩ 1/3W C.R.	2A
R 22	0280153	15kΩ 1/3W C.R.	1A
R 23	0280101	100Ω 1/3W C.R.	
R 24	0280472	4.7kΩ 1/3W C.R.	1A
R 25	0280101	100Ω 1/3W C.R.	1A

3-7. F-2775 Driver Amp Circuit Board (Stock No. 7572191)

Conductor Side



Parts List

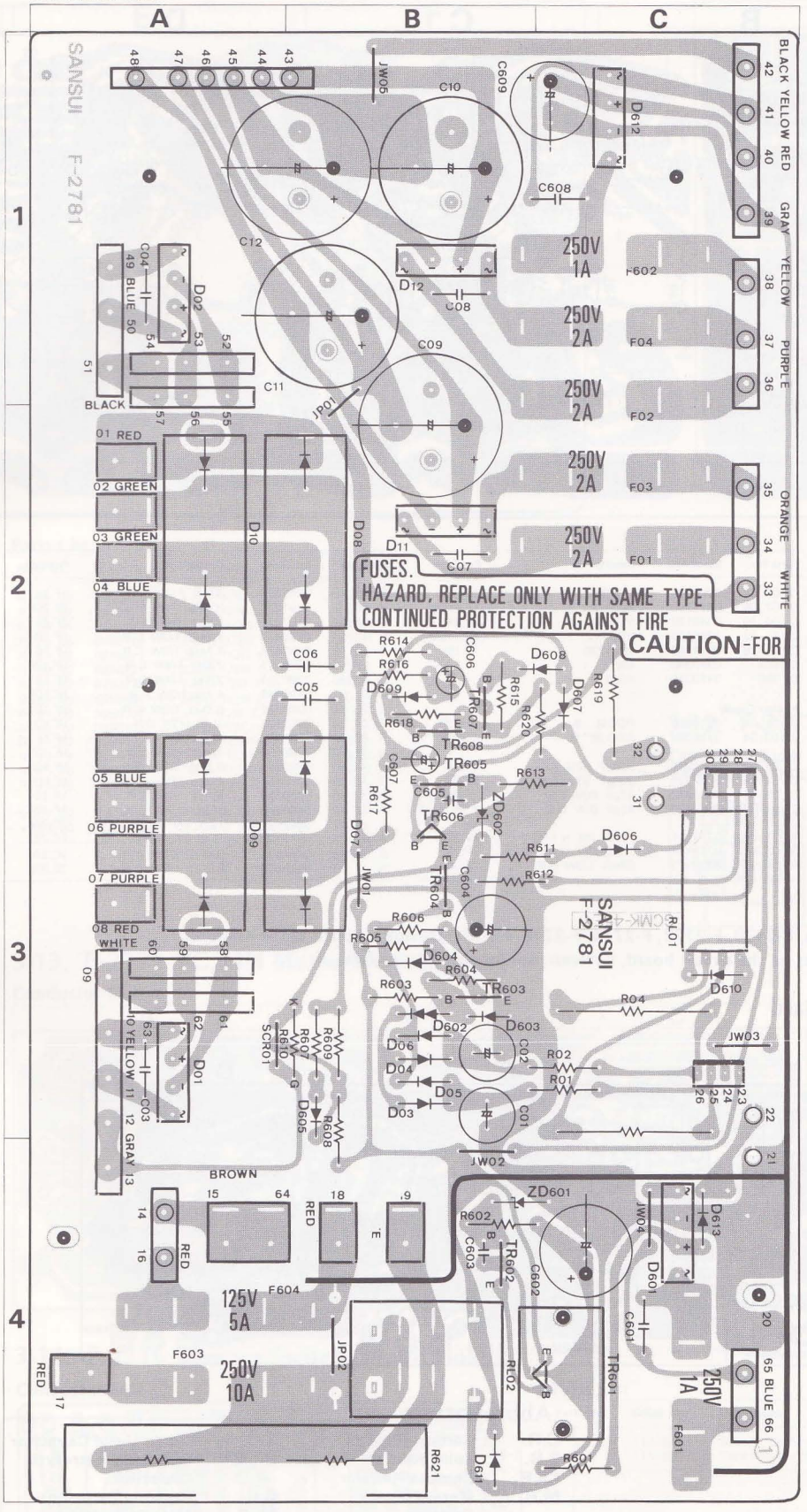
Parts No.	Stock No.	Description	Position
•Transistor			
TR01	0306680, 1	2SC2071 B, V	1A
TR02	0306740, 1	2SC1845 F, E	1C
TR03	0306740, 1	2SC1845 F, E	1C
TR04	0306740, 1	2SC1845 F, E	1C
TR05	0306740, 1	2SC1845 F, E	1C
TR06	0301090, 1	2SA992 F, E	1B
TR07	0301090, 1	2SA992 F, E	1B
TR08	0301090, 1	2SA992 F, E	1B
TR09	0301090, 1	2SA992 F, E	1B
TR10	0301030, 1	2SA939 B, V	2C
TR11	0306680, 1	2SC2071 B, V	2B
TR12	0306740, 1	2SC1845 F, E	2B
TR13	0306680, 1	2SC2071 B, V	2C
TR14	0301030, 1	2SA939 B, V	2B
TR15	0306660, 1	2SC2238LB O, Y	2C
TR16	0301020, 1	2SA968LB O, Y	2B
TR101	0306740, 1	2SC1845 F, E	3C
•FET			
FET01	0370251	2SK97	1B
•Diode			
D 01	0310480	SV03	1C
D 02	0310480	SV03	1C
D 03	0310480	SV03	2C
D 04	0310480	SV03	2B
D 05	0310340	10D1	2C
D 06	0310340	10D1	2B
D 101	0340150	MV12	3C
D 102	0311160	1S2473D	2C
D 103	0310400	1N34A	2C
D 104	0311160	1S2473D	2C
•Zener Diode			
ZD01	0317190	RD27F (B)	1C
ZD02	0316310	RD13E B	2A
C 01	0622101	100pF 125V P.C.	1B
C 03	0623220	22pF 125V P.C.	1B

Parts No.	Stock No.	Description	Position
C 04	0681013	0.033μF 400V M.C.	1C
C 07	0681013	0.033μF 400V M.C.	1C
C 09	0623309	3pF 125V P.C.	2C
C 10	0623309	3pF 125V P.C.	2B
C 11	0623109	1pF 125V P.C.	2B
C 12	0623109	1pF 125V P.C.	2B
C 13	0622102	1000pF 125V P.C.	2B
C 14	0622102	1000pF 125V P.C.	2B
C 15	0623330	33pF 125V P.C.	2C
C 16	0623330	33pF 125V P.C.	2B
C 18	0681013	0.033μF 400V M.C.	2B
C 19	0681018	0.22μF 400V M.C.	1A
C 22	0681018	0.22μF 400V M.C.	1A
C 29	0622681	680pF 125V P.C.	1C
C 30	0681014	0.47μF 400V M.C.	3A
R 01	0280104	100kΩ 1/3W C.R.	1B
R 02	0280681	680Ω 1/3W C.R.	1B
R 03	0212272	2.7kΩ 2W N.I.R.	2C
R 04	0231392	3.9kΩ 1/2W C.R.	1C
R 05	0231392	3.9kΩ 1/2W C.R.	1C
R 07	0280471	470Ω 1/3W C.R.	1C
R 08	0280470	47Ω 1/3W C.R.	1A
R 09	0280470	47Ω 1/3W C.R.	1A
R 10	0280470	47Ω 1/3W C.R.	1A
R 11	0280152	1.5kΩ 1/3W C.R.	1A
R 12	0280331	330Ω 1/3W C.R.	1B
R 13	0280392	3.9kΩ 1/3W C.R.	2A
R 14	0280101	100Ω 1/3W C.R.	1C
R 15	0280101	100Ω 1/3W C.R.	1B
R 16	0280821	820Ω 1/3W C.R.	1C
R 17	0280821	820Ω 1/3W C.R.	1C
R 18	0280101	100Ω 1/3W C.R.	1C
R 19	0280101	100Ω 1/3W C.R.	1C
R 20	0280121	120Ω 1/3W C.R.	1C
R 21	0280121	120Ω 1/3W C.R.	1C
R 22	0280820	82Ω 1/3W C.R.	1B

Parts No.	Stock No.	Description	Position
R 23	0280121	120Ω 1/3W C.R.	1B
R 24	0280121	120Ω 1/3W C.R.	1B
R 25	0280101	100Ω 1/3W C.R.	1B
R 26	0280101	100Ω 1/3W C.R.	1B
R 27	0280821	820Ω 1/3W C.R.	1B
R 28	0280821	820Ω 1/3W C.R.	1B
R 29	0280393	39kΩ 1/3W C.R.	2C
R 30	0280393	39kΩ 1/3W C.R.	2B
R 31	0280151	150Ω 1/3W C.R.	2C
R 32	0280472	4.7kΩ 1/3W C.R.	2C
R 33	0280681	680Ω 1/3W C.R.	2B
R 34	0280151	150Ω 1/3W C.R.	2A
R 35	0280560	56Ω 1/3W C.R.	2C
R 36	0280391	390Ω 1/3W C.R.	2C
R 37	0280391	390Ω 1/3W C.R.	2B
R 38	0280103	10kΩ 1/3W C.R.	
R 39	0210561	560Ω 1/2W N.I.R.	2C
R 40	0210561	560Ω 1/2W N.I.R.	2B
R 41	0210470	47Ω 1/2W N.I.R.	2C
R 42	0210470	47Ω 1/2W N.I.R.	2B
R 43	0210120	12Ω 1/2W N.I.R.	2A
R 44	0210120	12Ω 1/2W N.I.R.	2A
R 45	0280273	27kΩ 1/3W C.R.	1A
R 46	0207100	10Ω 7W N.I.R.	3B
R 47	0213392	3.9kΩ 3W N.I.R.	3A
R 48	0213392	3.9kΩ 3W N.I.R.	3A
R 101	0280104	100kΩ 1/3W C.R.	3C
R 102	0280223	22kΩ 1/3W C.R.	3C
R 103	0280680	68Ω 1/3W C.R.	3C
R 104	0280393	39kΩ 1/3W C.R.	3C
R 105	0280222	2.2kΩ 1/3W C.R.	3C
R 106	0280823	82kΩ 1/3W C.R.	3C
R 107	0280822	8.2kΩ 1/3W C.R.	2C
VR01	1033570	100Ω B 2.5x2 Center DC 0V Adj.	1A
VR02	1033630	1kΩ B 2.5x2 Bias Current Adj.	2B

3-8. F-2781 Power Supply & Protector Circuit Board (Stock No. 7503261)

Conductor Side

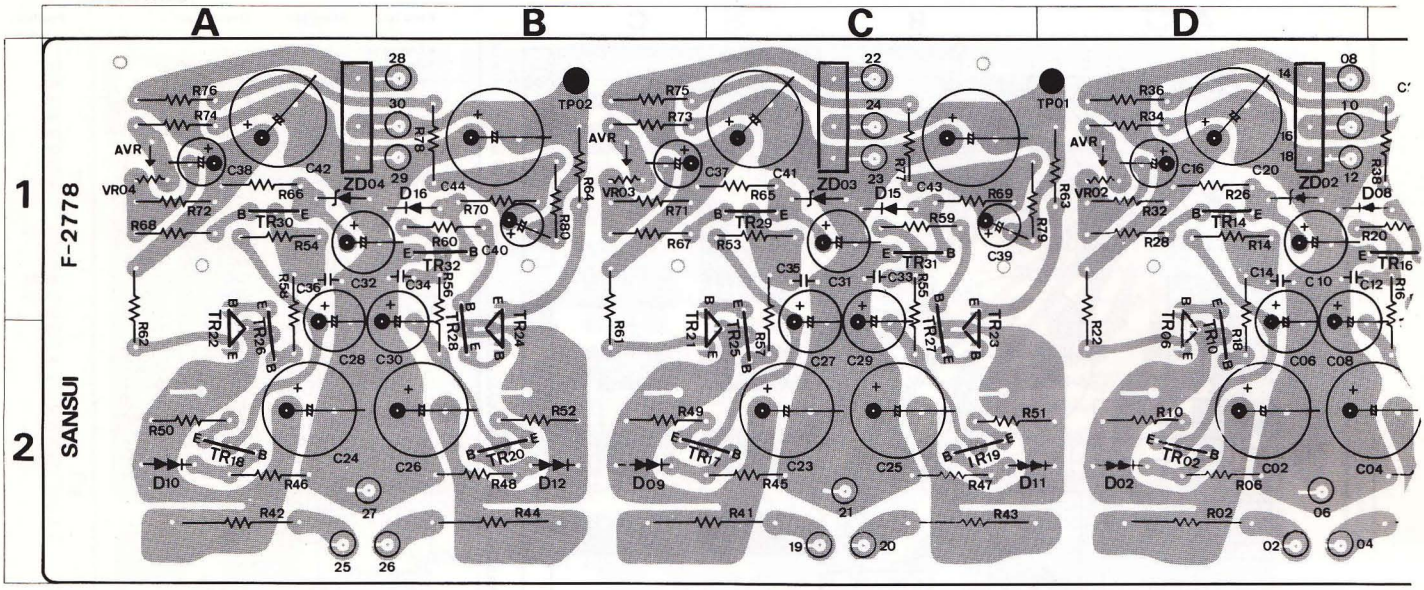


Parts List

Parts No.	Stock No.	Description	Position
•Transistor			
TR601	0308611, 2	2SD357 D, E	4C
TR602	0305951, 2	2SC945 Q, P	4B
TR603	0305951, 2	2SC945 Q, P	3B
TR604	0305951, 2	2SC945 Q, P	3B
TR605	0305951, 2	2SC945 Q, P	3B
TR606	0308611, 2	2SD357 D, E	3B
TR607	0305951, 2	2SC945 Q, P	2B
TR608	0305951, 2	2SC945 Q, P	2B
•Diode			
D 01, 02	0311700	RB152	3A,1A
D 03, 04	0311160	1S2473D	3B
D 05, 06	0311160	1S2473D	3B
D 07, 08	0311310	SS5	3B,2B
D 09, 10	0311320	SS5R	3A,2A
D 11	0311700	RB152	2B
D 12	0311700	RB152	1B
D 601	0311700	RB152	4C
D 602	0340150	MV12	3B
D 603	0311160	1S2473D	3B
D 604	0311160	1S2473D	3B
D 605	0311160	1S2473D	3B
D 606	0311160	1S2473D	3C
D 607	0311160	1S2473D	2C
D 608	0311160	1S2473D	2C
D 609	0311160	1S2473D	2B
D 610	0310340	10D1	3C
D 611	0310340	10D1	4B
D 612	0311700	RB152	1C
D 613	0310340	10D1	4C
•Zener Diode			
ZD601	0316510	RD24E B	4B
ZD602	0316390	RD6.2E B	3B
•SCR			
SCR601	0350020	2SF656	
C 03, 04	0606108	0.1μF 250V M.C.	3A,1A
C 05, 06	0606108	0.1μF 250V M.C.	2B
C 07	0606108	0.1μF 250V M.C.	2B
C 08	0606108	0.1μF 250V M.C.	1B
C 09	0548001	4700μF 25V E.C.	2B
C 10	0548001	4700μF 25V E.C.	1B
C 11	0548001	4700μF 25V E.C.	1B
C 12	0548001	4700μF 25V E.C.	1A
C 601	0606108	0.1μF 250V M.C.	4C
C 608	0606108	0.1μF 250V M.C.	1C
R 01, 02	0280223	22kΩ 1/3W C.R.	3C
R 03, 04	0135221	220Ω 5W Ce.R.	3C
R 601	0210829	8.2Ω 1W N.I.R.	4C
R 602	0210102	1kΩ 1/2W N.I.R.	4B
R 603	0280474	470kΩ 1/3W C.R.	3B
R 604	0280334	330kΩ 1/3W C.R.	3B
R 605	0280104	100kΩ 1/3W C.R.	3B
R 606	0280393	39kΩ 1/3W C.R.	3B
R 607	0280330	33Ω 1/3W C.R.	3B
R 608	0280472	4.7kΩ 1/3W C.R.	3B
R 609	0280183	18kΩ 1/3W C.R.	3B
R 610	0280102	1kΩ 1/3W C.R.	3B
R 611	0280330	33Ω 1/3W C.R.	3B
R 612	0280330	33Ω 1/3W C.R.	3B
R 613	0280473	47kΩ 1/3W C.R.	3B, C
R 614	0280682	6.8kΩ 1/3W C.R.	2B
R 615	0280474	470kΩ 1/3W C.R.	2B
R 616	0280104	100kΩ 1/3W C.R.	2B
R 617	0280104	100kΩ 1/3W C.R.	3B
R 618	0280474	470kΩ 1/3W C.R.	2B
R 619	0212152	1.5kΩ 2W N.I.R.	2C
R 620	0280121	120Ω 1/3W C.R.	2C
R 621	0159160	3.9Ω 20W Ce.R.	4B
RL01	1150430	Relay	3C
RL02	1150360	Relay	4B
F 01	0432240	AC Fuse 2A 250V	2C
F 02	0432240	AC Fuse 2A 250V	2C
F 03	0432240	AC Fuse 2A 250V	2C
F 04	0432240	AC Fuse 2A 250V	1C
F 601	0432220	AC Fuse 1A 250V	4C
F 602	0432220	AC Fuse 1A 250V	1C
F 603	0431320	AC Fuse 10A 250V	4A
F 604	0433290	AC Fuse 5A 125V	4A, B

3-9. F-2778 Regurated Power Supply Circuit Board (Stock No. 7503271)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
•Transistor			
TR01, 02	0301090, 1	2SA992 F, E	2E.2D
TR03, 04	0306740, 1	2SC1845 F, E	2F.2E
TR05, 06	0308611, 2	2SD357 D, E	2E.2D
TR07, 08	0303441, 2	2SB527 D, E	2F.2E
TR09, 10	0306740, 1	2SC1845 F, E	2E, F.2D
TR11, 12	0301090, 1	2SA992 F, E	2F.2E
TR13, 14	0306740, 1	2SC1845 F, E	1F.1D
TR15, 16	0301090, 1	2SA992 F, E	1F.1E
TR17, 18	0301090, 1	2SA992 F, E	2C.2E
TR19, 20	0306740, 1	2SC1845 F, E	2C.2B
TR21, 22	0308611, 2	2SD357 D, E	2C.2A
TR23, 24	0303441, 2	2SB527 D, E	2C.2B
TR25, 26	0306740, 1	2SC1845 F, E	2C.2A
TR27, 28	0301090, 1	2SA992 F, E	2C.2B
TR29, 30	0306740, 1	2SC1845 F, E	1C.1A
TR31, 32	0301090, 1	2SA992 F, E	1C.1B
•Diode			
D 01, 02	0340120	VD1212	2E.2D

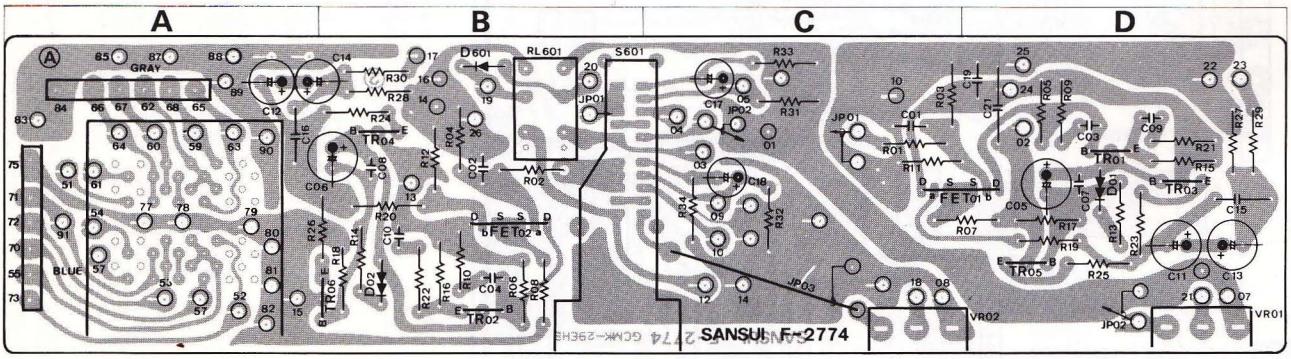
Parts No.	Stock No.	Description	Position
D 03, 04	0340120	VD1212	2F.2E
D 07, 08	0311160	1S2473D	1F.1E
D 09, 10	0340120	VD1212	2B.2A
D 11, 12	0340120	VD1212	2C, D.2B
D 15, 16	0311160	1S2473D	1C.1B
D 604	0310340	10D1	
D 605	0310340	10D1	
•Zener Diode			
ZD01, 02	0316510	RD24E B	1F.1D
ZD03, 04	0316390	RD6.2E B	1C.1A
C 01, 02	0587331	330μF 80V E.C.	2F.2D
C 03, 04	0587331	330μF 80V E.C.	2F.2E
C 05, 06	0587470	47μF 80V E.C.	1, 2F.1, 2D
C 07, 08	0587470	47μF 80V E.C.	1, 2F.1, 2D
R 01, 02	0212101	100Ω 2W N.I.R.	2E.2D
R 03, 04	0212101	100Ω 2W N.I.R.	2F.2E
R 05, 06	0280333	33kΩ 1/3W C.R.	2E.2D

Parts No.	Stock No.	Description	Position
R 07, 08	0280333	33kΩ 1/3W C.R.	2F.2E
R 09, 10	0191331	330Ω 1/4W F.R.	2E.2D
R 11, 12	0191331	330Ω 1/4W F.R.	2F.2E
R 13, 14	0280472	4.7kΩ 1/3W C.R.	1F.1D
R 15, 16	0280472	4.7kΩ 1/3W C.R.	1F.1E
R 17, 18	0280221	220Ω 1/4W C.R.	1F.1D
R 19, 20	0280221	220Ω 1/4W C.R.	1F.1E
R 21, 22	0192479	4.7Ω 1/2W F.R.	1E.1D
R 25, 26	0280622	6.8kΩ 1/3W C.R.	1E.1D
R 27, 28	0280102	1kΩ 1/3W C.R.	1E.1D
R 29, 30	0280102	1kΩ 1/3W C.R.	1F.1E
R 31, 32	0280103	10kΩ 1/3W C.R.	1E.1D
R 33, 34	0280822	8.2kΩ 1/3W C.R.	1E.1D
R 35, 36	0280181	180Ω 1/3W C.R.	1E.1D
R 37, 38	0280183	18kΩ 1/3W C.R.	1F.1E
R 39, 40	0280183	18kΩ 1/3W C.R.	1F.1E
R 41, 42	0212120	12Ω 2W N.I.R.	2C.2A
R 43, 44	0212120	12Ω 2W N.I.R.	2C.2B
R 45, 46	0280682	6.8kΩ 1/3W C.R.	2C.2A
R 47, 48	0280682	6.8kΩ 1/3W C.R.	2C.2B

- **Note: The circuit boards, F-2820, F-2772, F-2774, F-2776, F-2777 are not supplied as the assembled, the individual parts on the circuit board, however, are provided for orders.**

3-10. F-2774 Buffer Amp Circuit Board

Conductor Side

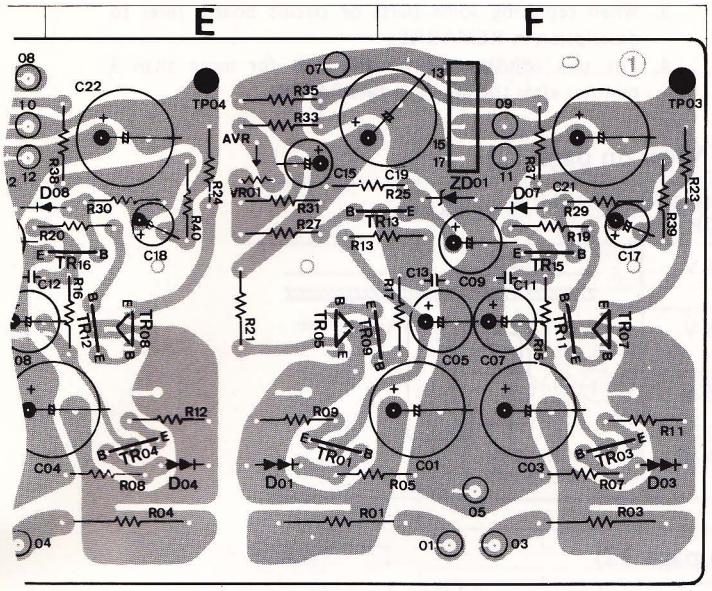


Parts List

Parts No.	Stock No.	Description	Position
R 31~34	0280474	470kΩ 1/3W C.R.	C
RL601	1150620	Relay	B
VR01, 02	1000360	50kΩ A	C, D
S 601	1190640	Power Amp Operation Switch	B
S 602	1104400	Tape Copy Switch	

Abbreviations

C.R.	: Carbon Resistor	E.C.	: Electrolytic Capacitor
S.R.	: Solid Resistor	BP.E.C.	: Bi-Polar Electrolytic Capacitor
Ce.R.	: Cement Resistor		
M.R.	: Metal Film Resistor	C C.	: Ceramic Capacitor
F.R.	: Fusing Resistor	Mi.C.	: Mica Capacitor
N.I.R.	: Non-Inflammable Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
		T.C.	: Tantalum Capacitor

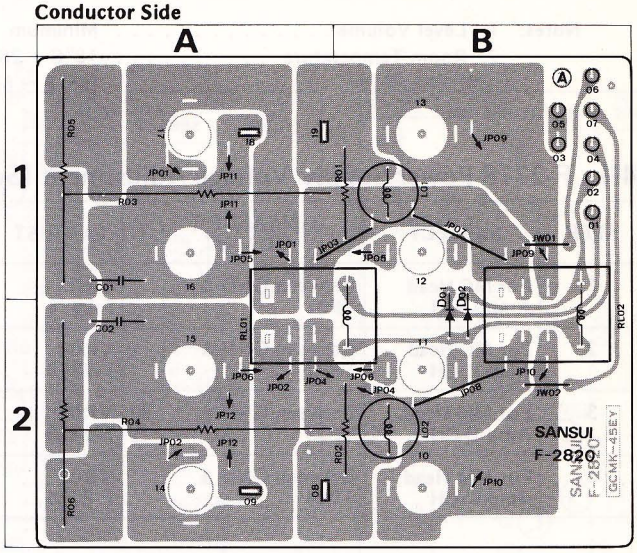


Parts List

Parts No.	Stock No.	Description	Position
R 49, 50	0280471	470Ω 1/3W C.R.	2B.2A
R 51, 52	0280471	470Ω 1/3W C.R.	2C.2B
R 53, 54	0280122	1.2kΩ 1/3W C.R.	1C.1A
R 55, 56	0280122	1.2kΩ 1/3W C.R.	1C.1B
R 57, 58	0280221	220Ω 1/3W C.R.	1, 2C.1A
R 59, 60	0280221	220Ω 1/3W C.R.	1C.1B
R 61, 62	0192229	2.2Ω 1/2W F.R.	1B.1A
R 65, 66	0280561	560Ω 1/3W C.R.	1C.1A
R 67, 68	0280102	1kΩ 1/2W C.R.	1B.1A
R 69, 70	0280102	1kΩ 1/2W C.R.	1C.1B
R 71, 72	0280392	3.9kΩ 1/3W C.R.	1B.1A
R 73, 74	0280562	5.6kΩ 1/3W C.R.	1B.1A
R 75, 76	0280103	10kΩ 1/3W C.R.	1B.1A
R 77, 78	0280102	1kΩ 1/3W C.R.	1C.1B
VR01, 02	1033670	4.7kΩ B DC Volt Adj.	1E.1D
VR03, 04	1033650	2.2kΩ B DC Volt Adj.	1B.1A

3-11. F-2820 Speakers Relay Circuit Board

Conductor Side

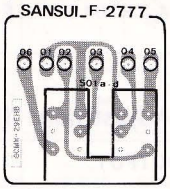


Parts List

Parts No.	Stock No.	Description	Position
•Diode			
D 01, 02	0310340	10D1	2B
C 01, 02	0681014	0.047μF 400V M.C.	1A.2A
R 01, 02	0212109	1Ω 2W N.I.R.	1B.2B
R 03, 04	0207100	10Ω 7W N.I.R.	1A.2A
L 01, 02	4290370	RF Coil 1μH	1B.2B
RL01, 02	1150410	Relay	2A.2B

3-12. F-2777 MC, MM Switch Circuit Board

Conductor Side

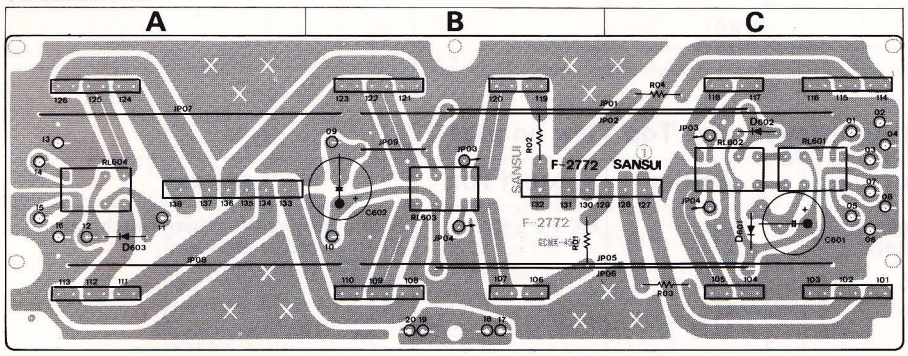


Parts List

Parts No.	Stock No.	Description
S 01	1131800	MM/MC Switch

3-13. F-2772 MC, MM Mother Circuit Board

Conductor Side

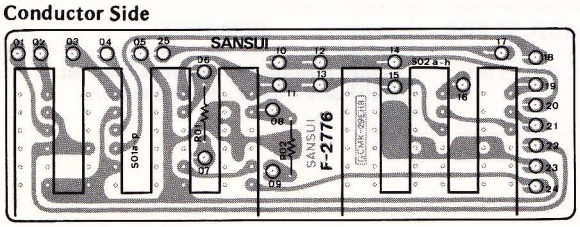


Parts List

Parts No.	Stock No.	Description	Position
•Diode			
D601 ~ 603	0310340	10D1	A, C
C 601	0504471	470μF 35V E.C.	C
C 602	0504471	470μF 35V E.C.	B
RL601~604	1150620	Relay	A, B, C

3-14. F-2776 Selector Switch Circuit Board

Conductor Side



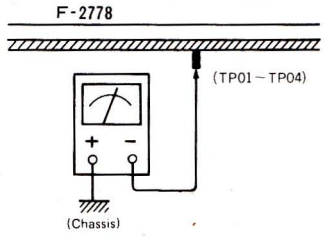
Parts List

Parts No.	Stock No.	Description
S 01	1131830	Selector Switch
S 02	1131820	Tape Play Switch

4. ADJUSTMENTS

Notes: 1. Level Volume . . . . . Minimum
2. Room Temperature . . . . . 18°C ~ 28°C (65°F ~ 83°F)
3. When replacing some parts or circuit board, refer to description in REMARKS.
4. For this adjustment, run the unit for more than 3 minutes after the power is switched ON.

4-1. F-2778 Power Supply Voltage Adjustment (See Top View on page 12)

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	For MC Head Amp L-CH	Between GND & TP01	VR03 F-2778	−10.5 V	
2	For MC Head Amp R-CH	Between GND & TP02	VR04 F-2778	−10.5 V	
3	For MM Head Amp L-CH	Between GND & TP03	VR01 F-2778	−47.5 V	
4	For MM Head Amp R-CH	Between GND & TP04	VR02 F-2778	−47.5 V	

4-2. F-2775 Driver Circuit Adjustment (See Top View on page 12)

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	DC 0V Adj. L-CH	Speaker terminal	VR01 F-2775	DC 0V ±5 mV	Before turning ON power switch, set VR01 to center position.
2	DC 0V Adj. R-CH	Speaker terminal	VR01 F-2775		
3	Bias current Adj. L-CH	Between emitters of power transistors, TR701 & TR703 (between T.P Pin)	VR02 F-2775	DC 25 mV ±1 mV	Before turning ON power switch, turn VR02 fully counterclockwise. This bias current adjustment converts current value into voltage by Ohm's law.
4	Bias current Adj. R-CH	Between emitters of power transistors, TR702 & TR704 (between T.P Pin)	VR02 F-2775		

4-3. F-2917, F-2918 MC Head Amp Adjustment (See Top View on page 12)

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	DC 0V Adj. L-CH F-2917	Between GND & common joint of emitter resistors R41, R47 (TP01)	VR01 F-2917	DC 0V ±5 mV	Before turning ON power switch, set VR01 to center position.
2	DC 0V Adj. R-CH F-2918	Same as above	VR01 F-2918		

4-4. F-2770, F-2771 Equalizer Circuit Adjustment (See Top View on page 12)

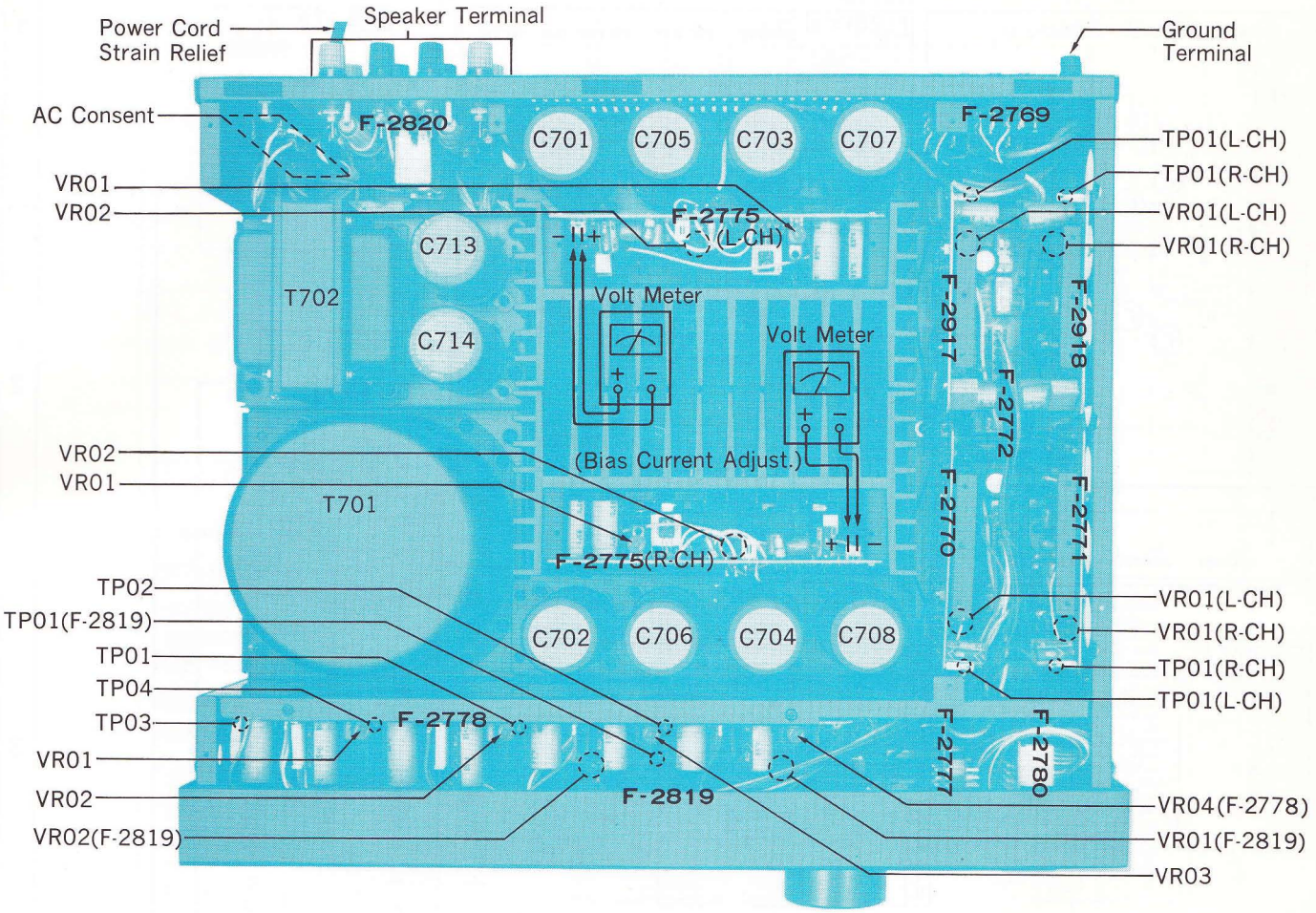
STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	DC 0V Adj. L-CH F-2770	Between GND & common joint of emitter resistors R38, R39 (TP01)	VR01 F-2770	DC 0V ±50 mV	Before turning ON power switch, set VR01 to center position.
2	DC 0V Adj. R-CH F-2771	Same as above	VR01 F-2771		

4-5. F-2819 Flat Amp Circuit Adjustment (See Top View & Bottom View on page 12)

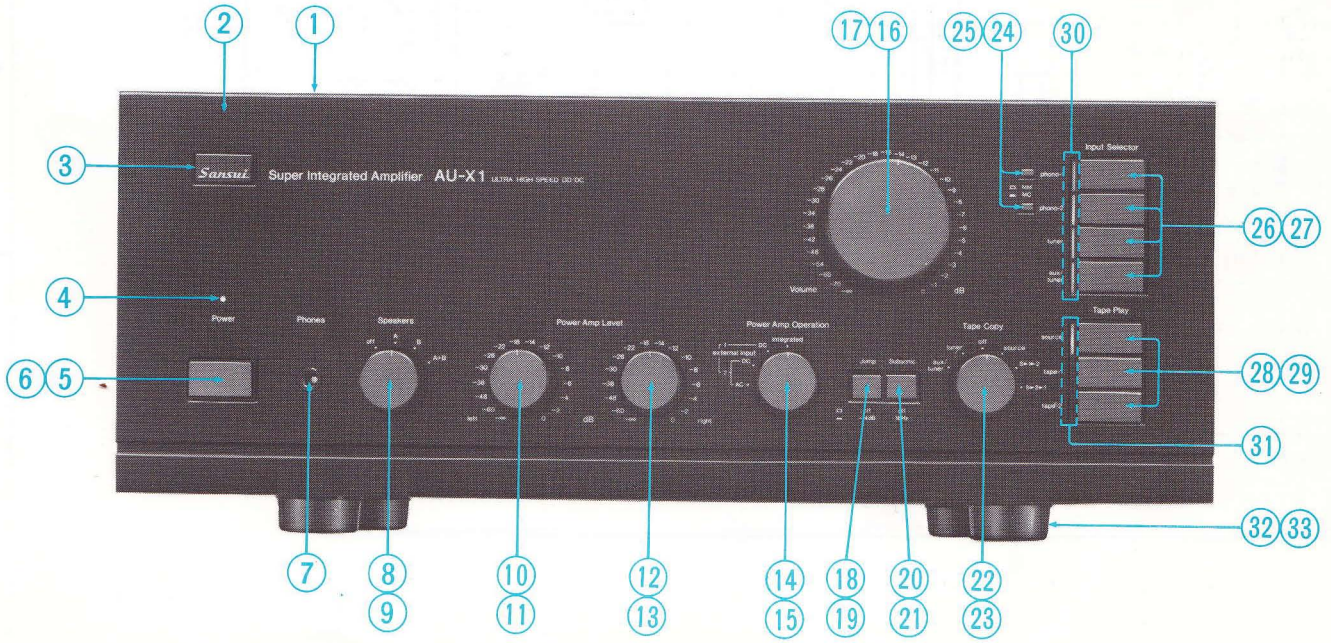
STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	DC 0V Adj. L-CH	Between chassis and collector connecting point TP01 of TR15 & TR17 (Top View)	VR01 F-2819	DC 0V ±5 mV	Before turning ON power switch, set VR01 & VR02 to center position.
2	DC 0V Adj. R-CH	Between chassis and collector connecting point TP02 of TR16 & TR18 (Bottom View)	VR02 F-2819		

5. OTHER PARTS

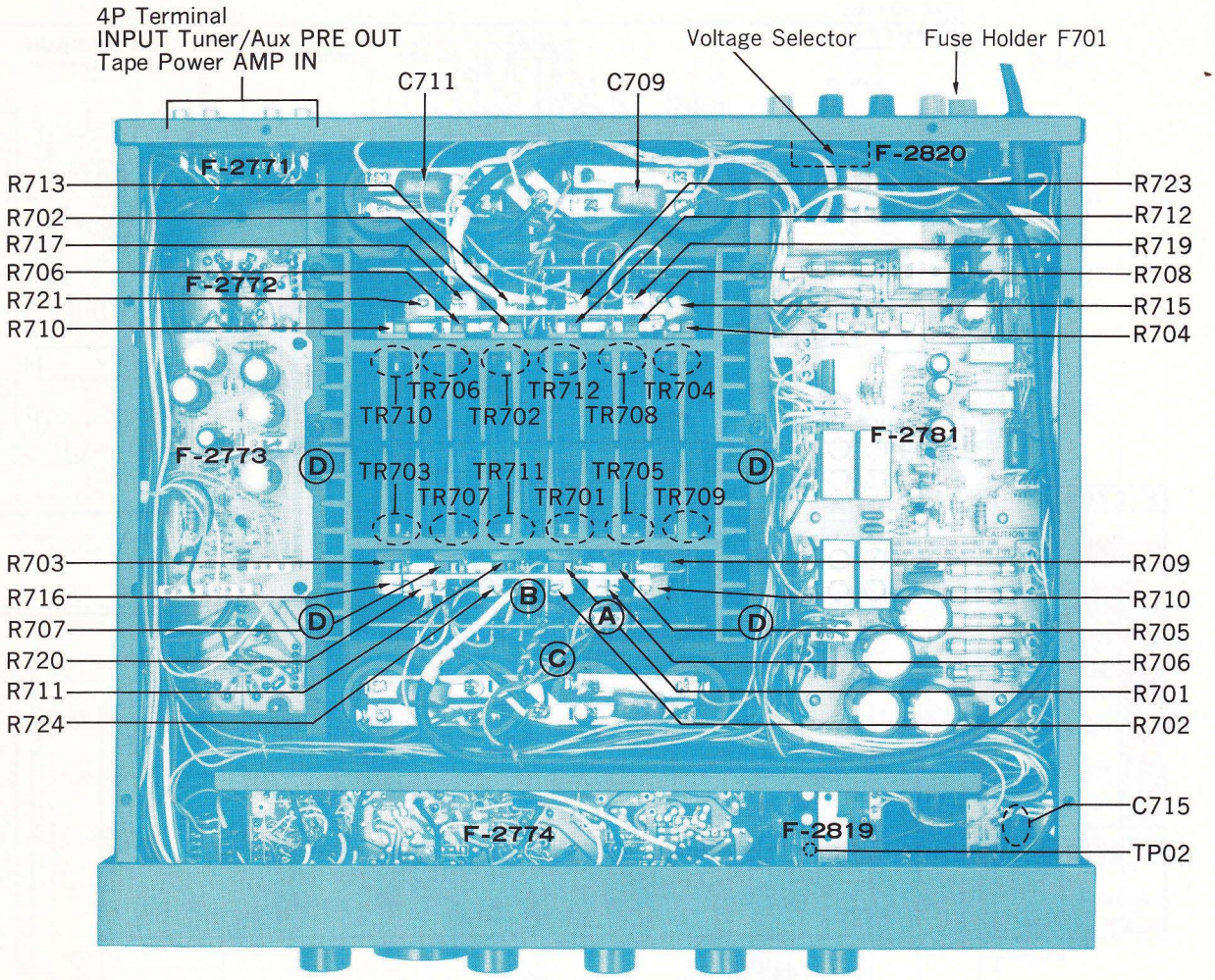
5-1. Top View



5-2. Front View



5-3. Bottom View



Parts List <Top View, Front View & Bottom View>

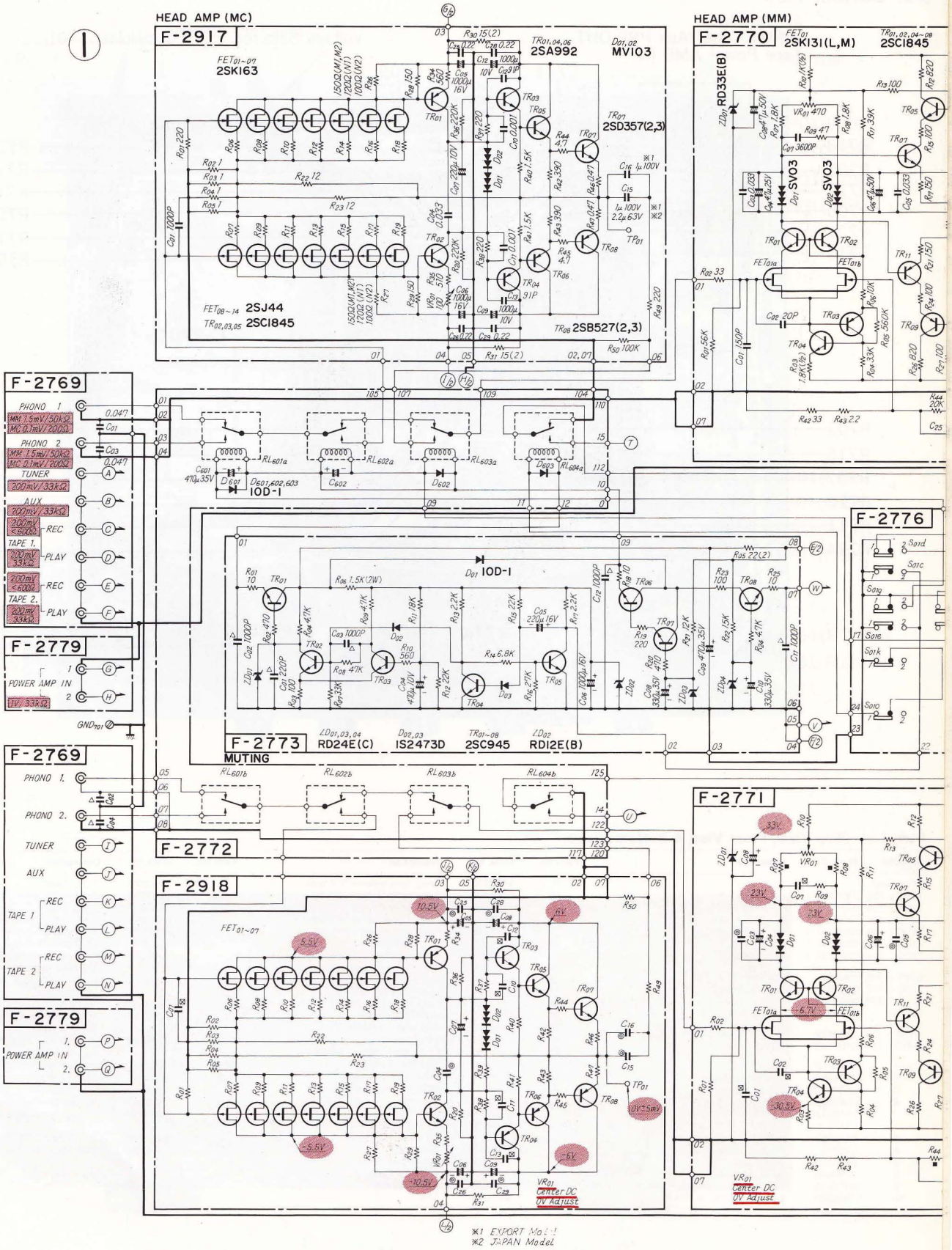
Parts No.	Stock No.	Description
•Transistor		
TR701, 702	0306890, 1	2SC2493 O, Y
TR703, 704	0301200, 1	2SA1068 O, Y
TR705, 706	0306890, 1	2SC2493 O, Y
TR707, 708	0301200, 1	2SC1068 O, Y
TR709, 710	0306890, 1	2SC2493 O, Y
TR711, 712	0301200, 1	2SA1068 O, Y
C701 ~ 708	0559851	10000μF 80V E.C.
C709 ~ 712	0681033	1μF 250V M.C.
C 713, 714	0559850	2200μF 100V E.C.
C 715	0659801	0.01μF 150V C.C.
R701 ~ 712	0200479	47Ω 1/2W N.I.R.
R713 ~ 724	0159130	0.33Ω 5W Ce.R.
1	5006810	Bonnet
2	7008150	Front Panel Ass'y
3	5336600	Sansui Badge
4	0319090	LED
	5152210	CS Washer
	7106150	Knob Ass'y
5	1131790	Power Switch
6	536740	Knob, power switch, p type
7	2430290	Phone Jack
8	1190640	Speakers Switch
9	5319210	Knob, speakers switch, Y-7 type
10	1000360	Left Level Volume, 50kΩ

Parts No.	Stock No.	Description
11	5319210	Knob, level volume, Y-7 type
12	1000360	Right Level Volume, 50kΩ
13	5319210	Knob, level volume, Y-7 type
14	1190640	Power Amp Operation Switch
15	5319210	Knob, power amp operation switch
16	1090500	Volume, 50kΩ
17	5319200	Knob, volume, X-7 type
18, 20	1131810	Jump, subsonic switch
19, 21	5326760	Knob, jump switch
22	1104400	Tape Copy Switch
23	5319210	Knob, tape copy switch, Y-7 type
24	1131800	MM/MC Switch
25	7106150	Knob Ass'y, MM/MC Switch
26	1131830	Input Selector Switch
27	5326750	Knob, input selector switch
28	1131820	Tape Play Switch
29	5326750	Knob, tape play switch
30	5396630	4P Guide Plate Ass'y
	5426420	Indicator
	5426440	Color Plate
	5396590	4P Guide Plate
31	5396570	3P Guide Plate Ass'y
	5426240	Indicator
	5426440	Color Plate
	5396580	3P Guide Plate
32	5059030	Bottom Plate
33	5517050	Leg

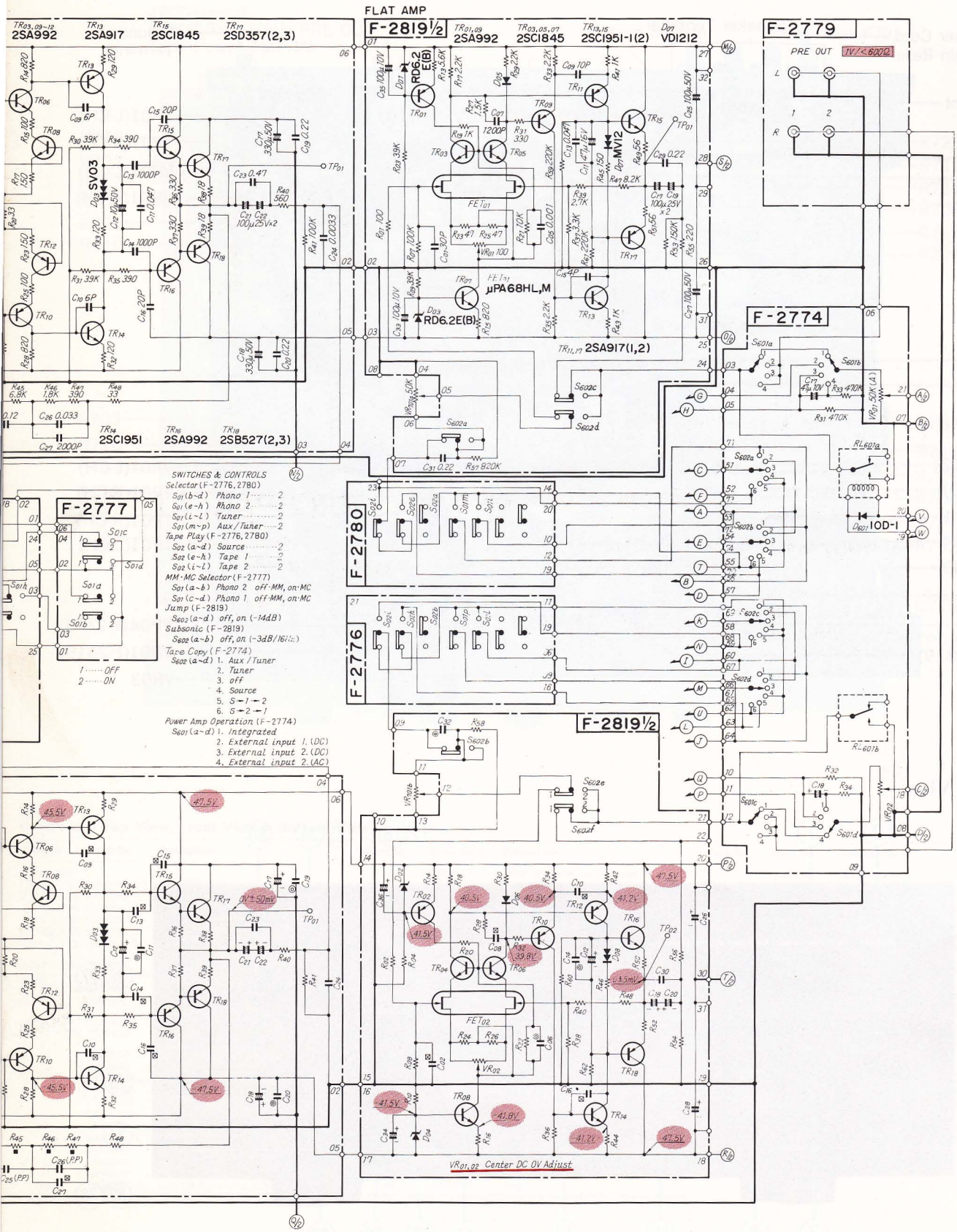
Parts No.	Stock No.	Description
	2450070	AC Consent
	2230190	Ground Terminal
	3800490	Power Cord
	3910490	Strain Relief, power cord
	2230220	1P Speaker Terminal (Red)
	2230230	1P Speaker Terminal (Black)
	2200630	4P Input Terminal, phono shorting type
	2200620	4P Input Terminal, aux/tuner, shorting type
	2200650	4P Tape Terminal, non-shorting type
	2200620	4P Power AMP IN Terminal, shorting type
	2200580	4P PRE OUT Terminal, non-shorting type
T701	4002960	Power Transformer
T702	4002970	Power Transformer
	2410091	Voltage Selector, Plug
	2410830	Voltage Selector, Socket
F701	0432290	5A 125V AC 100V, 120V AC Fuse
	0434060	10A 250V AC 220V, 240V AC Fuse
	2300060	AC Fuse Holder

A	B	C	D

6. SCHEMATIC DIAGRAM 6-1. Pre Amp Section

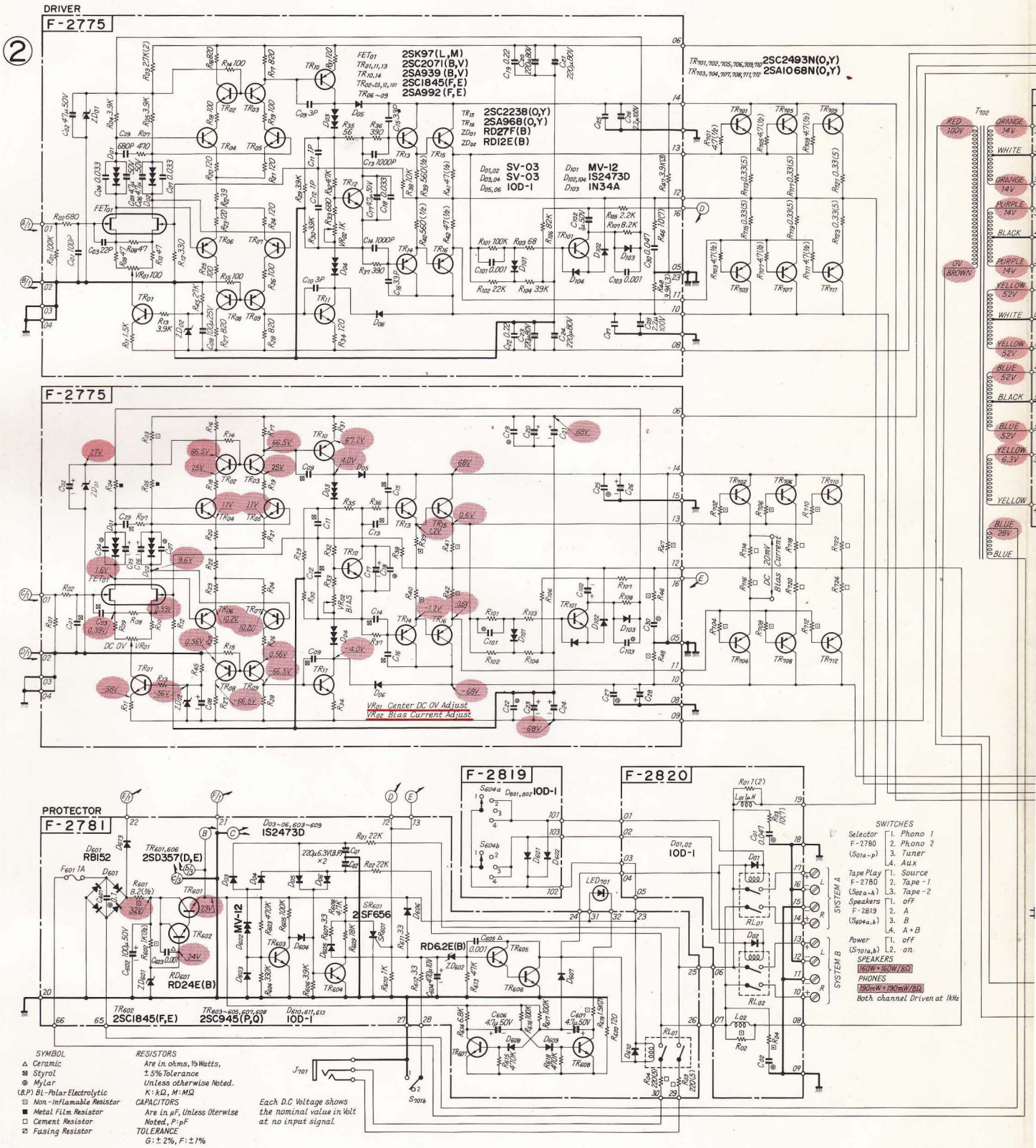


- Design and specifications subject to change without notice for improvement.
- La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



A	B	C	D

6-2. Main Amp & Power Supply Section



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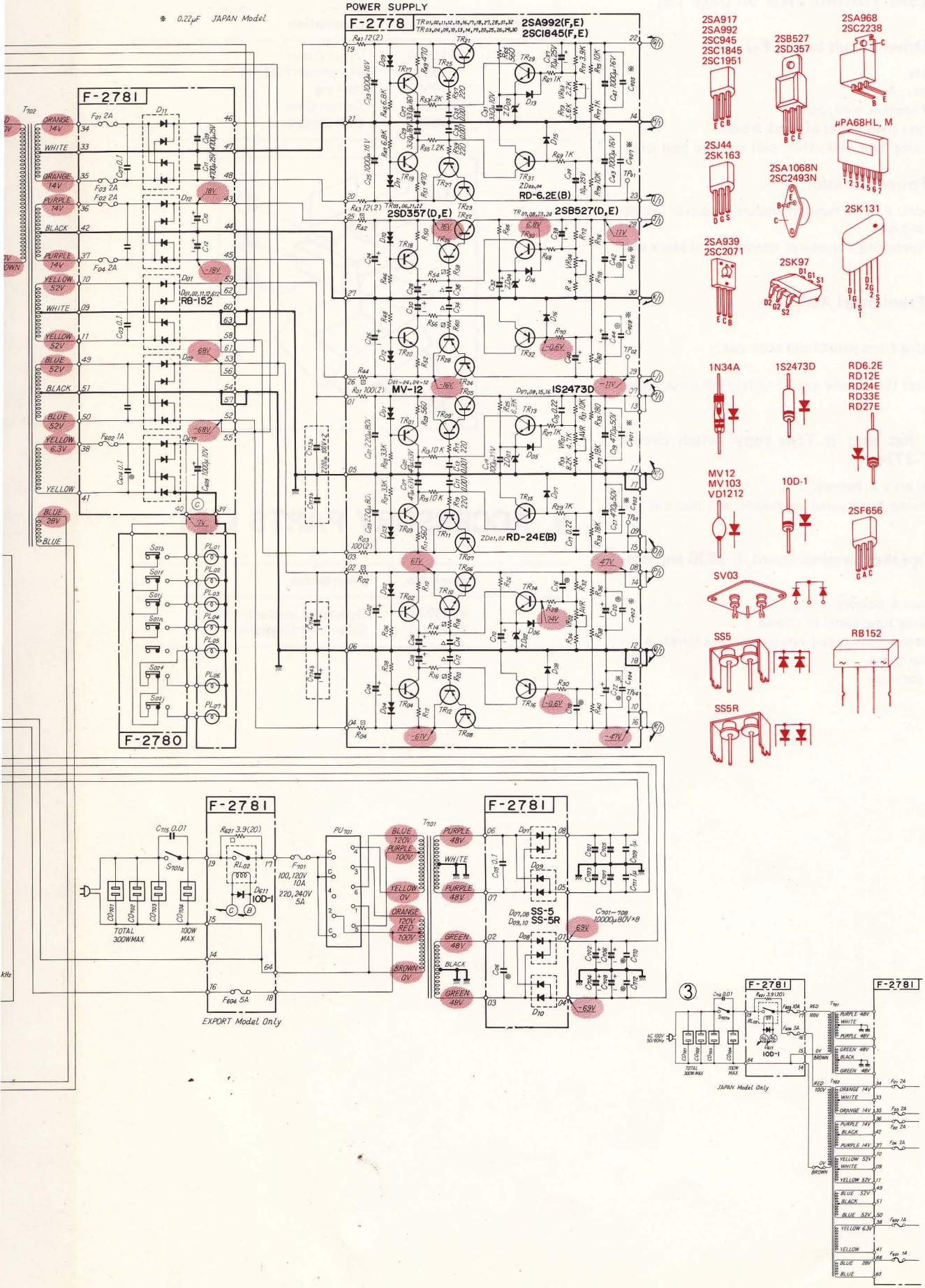


7. REPLACEMENT OF MAIN PARTS (See Vottom View on page 12)

1) Replacement of Driver circuit board, F-2775.

* Remove bottom plate.
* Remove 3p connector, A.
* Disconnect +side of speaker cord, point B.
* Disconnect earth wires (two pieces of black wires).
* Loosen 4 screws fixing heat sink, then pull out the heat sink.

2) Replacement of Power transistor.

* Pull out the heat sink by the same procedure of driver circuit board replacement above.
* Loosen the screws mounting the power transistor and pluck out the transistor.

3) Replacement of Front panel Ass'y.

* Remove bonnet.
* Loosen 4 screws fixing front panel from both side.
* Remove knobs.
* Loosen a screw under the volume knob and take off a nut fixing speaker switch.

4) Replacement of flat amp & Tape copy switch circuit board, F-2819, F-2774.

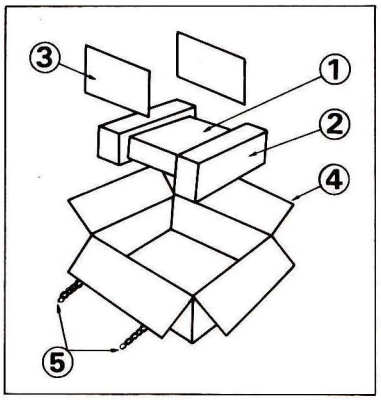
* Remove front panel ass'y & bonnet.
* Loosen 4 screws fixing back panel to chassis, and pull out the back panel.

5) Replacement of speaker terminal board, F-2820 and protector relay.

* Remove bottom plate & bonnet.
* Loosen 8 screws fixing Rear panel to chassis.
* Take off 8 of speaker terminal and remove speaker terminal circuit board from Rear panel.
* Replace the protector relay.

8. PACKING LIST

Parts No.	Stock No.	Description
1	9116800	Vinyl Cover
2	9028310	Styrofoam Packing
3	9019520	Packing
4	9001570	Carton Case
5	5996080	Curl Stopper



9. ACCESSORY PARTS LIST

	Stock No.	Description
	9203920	Operating Instructions
	9238000	Schematic Diagram

MEMO

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333 West Alondra Blvd. Gardena, California 90247 U.S.A.
3036 Koapaka St. Honolulu, Hawaii 96819 U.S.A.
SANSUI AUDIO EUROPE N.V.: North Trade Bldg (9th floor) Noorderlaan 133-Bus 1,2030 Antwerp, Belgium
SNASUI AUDIO EUROPE S.A.: Arabella center, 6 Frankfurt AM Main, Lyoner Strasse 44-48, West Germany
SANSUI ELECTRIC COMPANY LTD.: 14-1, Izumi 2-chome, Suginamiku, Tokyo 168 Japan PHONE: (03) 323-1111/TELEX: 232-2076

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